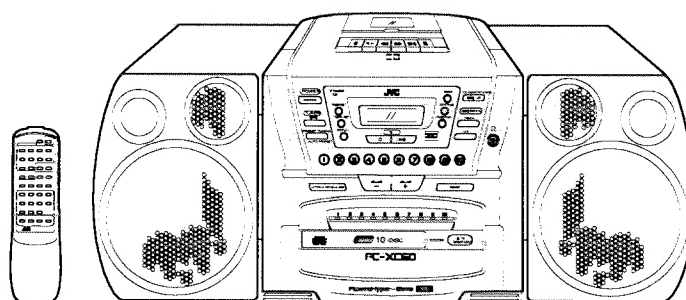


JVC

SERVICE MANUAL

PORTABLE CD CHANGER SYSTEM

PC-XC60BK C/J



COMPACT
disc
DIGITAL AUDIO

Area Suffix

C Canada
J U.S.A

■ Self-diagnosis function

This model has a convenient self-diagnosis function for CD section.

Contents

■ Safety Precautions.....	Page2	■ Cassette amplifier circuit.....	66
■ Important control point concerning safety	4	■ Tuner circuit	66
■ Instructions	5	[8] Location of P. C. Board and Parts List	
[1] Location of Main Parts	25	■ Tuner Board	67
[2] Removal of Main Parts.....	30	■ Main board	68
[3] Main Adjustments.....	38	■ Power supply/key switch board	74
[4] Wiring Connections/Jig List.....	44	■ CD amplifier board	76
[5] Troubleshooting	45	[9] Exploded View of Enclosure Assembly	
[6] Block Diagram		■ Speaker section.....	77
■ Integrated circuit.....	55	■ Enclosure assembly section	78
■ Circuit diagram.....	60	[10] Exploded View of Mechanism Assembly	
[7] Standard Schematic Diagram		■ CD changer section.....	80
■ Changer driver circuit	62	■ Cassette mechanism section	82
■ Indicator/system microprocessor circuit.....	63	■ CD mechanism section.....	84
■ Power amplifier circuit	64	[11] Illustration of Packing and Parts List.....	85
■ CD amplifier circuit.....	65		

Safety Precautions

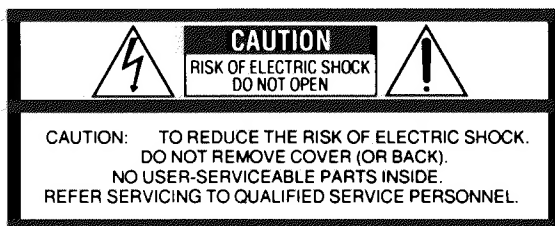
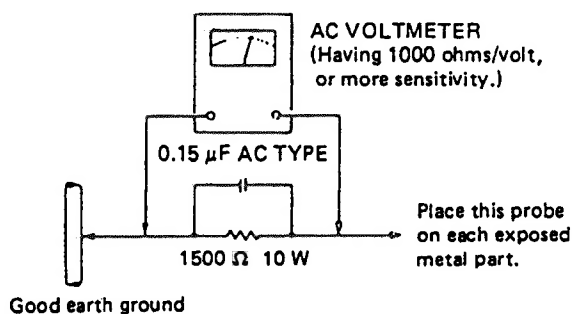
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading (■) and (▲) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

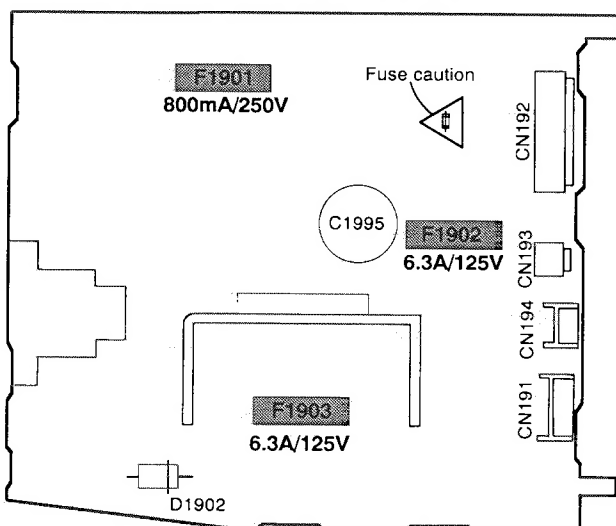
CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

J (USA) Only Important for Laser Products

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the bottom cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser vent emission of radiation when unloading cartridge and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
6. CAUTION: The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

POWER SUPPLY BOARD

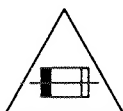


PC – XC60 C/J ONLY

Explanation of graphic symbol mark

Graphic symbol mark

(This symbol means fast blow type fuse.)

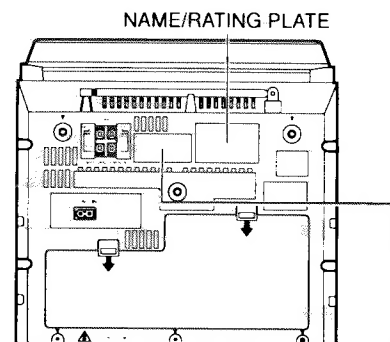


should be read as follows:

FUSE CAUTION

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE OF FUSE;
F1901 : 800mA/250V, F1902 : 6.3A/125V, F1903 : 6.3A/125V

IDENTIFICATION LABEL AND CERTIFICATION LABEL



Notes:

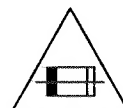
- * 1 The date of manufacture.
- * 2 The ID code of manufacturing plant.

PC – XC60 C/J SEULEMENT

Explication du symbole graphique

Le symbole graphique

(Ce symbole signifie fusible de type à fusion rapide.)



doit être interprété comme suit:

PRECAUTIONS SUR LES FUSIBLES

POUR UNE PROTECTION CONTINUE
CONTRE DES RISQUES D'INCENDIE,
REEMPLASER SEULEMENT PAR UN FUSIBLE
DU MEME TYPE ; F1901: 800mA/250V, F1902 :
6.3A/125V, F1903 : 6.3A/125V

■ Important control point concerning safety

1. Check the power transformer marking, and check that the power transformer is securely installed.

UL approval number: 71H400HDLP

Parts number:

2. Check the power cord marking, and check that the power cord is not externally damaged.

J VERSION

C VERSION

Cord mark: SPT – 2

SPT – 2

Attachment plug: KP-10W or SU-1P KP-10W or SU-1P

Connect plug: KS-15W or SU-6P KS-15W or SU-6P

3. Check the AC socket marking, and check that the AC socket is tightly fixed in the P.C.board when installed.
HSC1566

4. Check that there is sufficient space for the primary and adjacent secondary terminal parts on the P.C.board (There should be no protrusions of solder or terminal wires.)

5. Check the rated fuse display, and check that the fuse is secure in the fuse holder. F1901: 800mA/250V

F1902: 6.3A/125V

F1903: 6.3A/125V

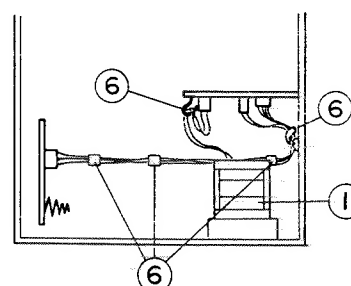
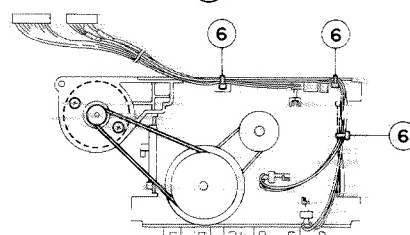
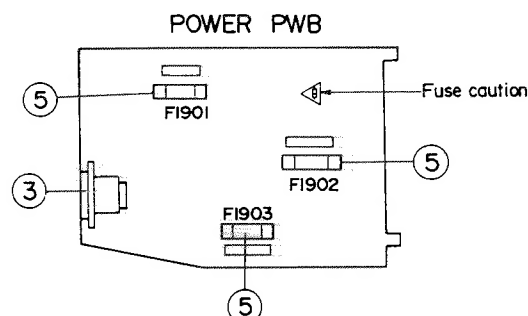
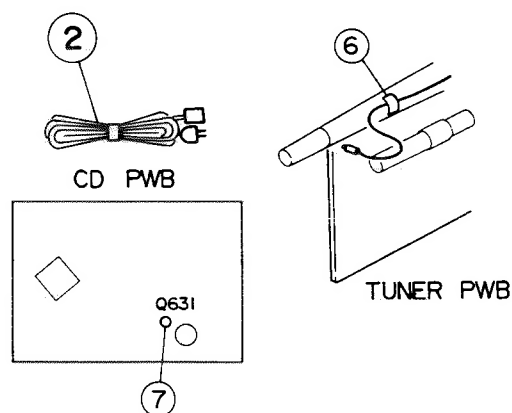
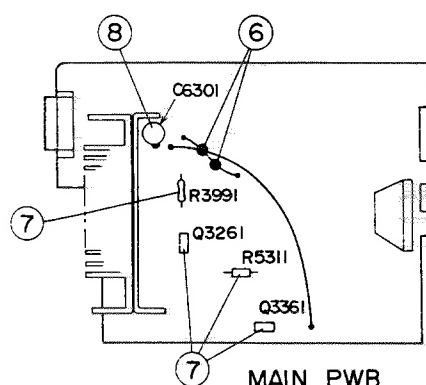
6. Check that the wires are neatly arranged so that they do not interfere with sections involving power, moving parts, heat generation, or those with sharp-edged parts.

7. The following parts are important for safety in such operations as those involved with heat generation. Use the specified parts and check original shape. Heat generating parts should be suspended above the P.C.board not fallen down. Parts marked with are safety control parts.

HEAT SINK, IC601, Q3191, R7341, Q3261, Q603, IC602,

Q3361, R5311, R3891.

8. Confirm the following parts specified in the UL and CSA.: C361 (vending type)

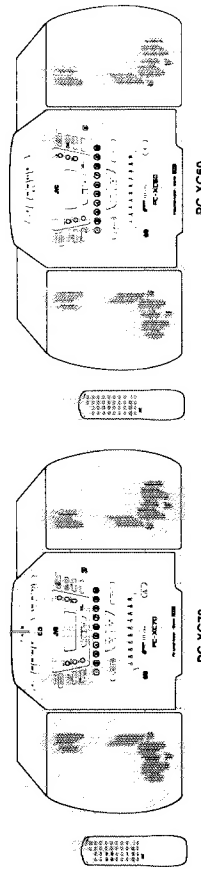


JVC



CD PORTABLE COMPONENT SYSTEM
SISTEMA PORTATIL DE COMPONENTES DE CD
CHAÎNE PORTABLE A LECTEUR CD

PC-XC70/XC60 C/J



COMPACT
disc
DIGITAL AUDIO

INSTRUCTIONS

INSTRUCCIONES
MANUEL D'INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.
Model No. _____
Serial No. _____

2

ENGLISH

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.



CONTENTS

Features	3
Safety precautions	4
Handling precautions	4
Attaching/detaching the speakers	6
Connections	7
Power supply	7
Names of parts and their functions	10
Remote control unit	13
Switching the power on/off	15
Volume, tone and other controls	16
Handling CDs	18
Playing CDs	19
Handling cassette tapes	26
Cassette playback	27
Relay playback (From Deck B to Deck A)	27
Radio reception	28
Recording	30
Tape dubbing	33
(Synchron start dubbing)	33
Clock adjustment	34
Timer operations	34
Maintenance	38
Troubleshooting	39
Specifications	39

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses frequency modulation (FM) and is designed to be used in accordance with the instructions. It may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

FRANÇAIS

Nous vous remercions d'avoir acheté cet appareil JVC. Veuillez lire consciencieusement ce manuel d'instructions avant de commencer à faire fonctionner l'appareil de façon à être sûr d'obtenir les performances optimales et une durée de vie plus longue de cet appareil.

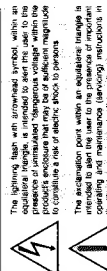
ESPAÑOL

Le agradecemos la adquisición de este producto de JVC. Por favor, lea detenidamente las instrucciones antes de comenzar la operación para obtener de esta unidad un rendimiento óptimo y una vida de servicio más larga.

INDICE

Características	3
Precauciones de seguridad	4
Precauciones de manipulación	4
Fixación/detach de los altavoces	6
Conexiones	7
Alimentación	7
Nombres de las partes y sus funciones	10
Unidad de control remoto	13
Conexión/desconexión de la alimentación	15
Volumen, tono y otros controles	16
Manipulación de CD	18
Reproducción de CD	19
Reproducción de cintas de cinta	26
Reproducción de cassettes	27
Reproducción por relevo (De la Platina B a la platina A)	27
Radio-recepción	28
Grabación	30
Copia de cinta (Copia con inicio sincronizado)	33
Ajuste del reloj	34
Operaciones por temporizador	34
Mantenimiento	38
Detección de problemas	39
Especificaciones	39

ADVERTENCIA:
PARA REDUCIR EL RIESGO DE INCENDIO O DE CHOQUES ELÉCTRICOS, NO EXPOGA ESTE APARATO A LA LLUVIA O A LA HUMEDAD.



- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Instructions

SOMMAIRE

Caractéristiques	3
Consignes de sécurité	4
Précautions de manipulation	4
Fixation/detrait des haut-parleurs	6
Raccordements	7
Alimentation	7
Noms des pièces et leurs fonctions	10
Boîtier de télécommande	13
Connexion marche/arrêt de l'alimentation	15
Volume, tonalité et autres commandes	16
Manipulation des disques audionumériques	18
Lecture de disques audionumériques	19
Manipulation des cassettes audionumériques	26
Lecture de cassette	27
Lecture avec relais (De la Platine B à la Platine A)	27
Réception radio	28
Enregistrement	30
Copie de bande (Copie à démarrage synchrone)	33
Réglage de l'horloge	34
Fonctionnement de la minuterie	34
Entretien	38
En cas de pannes	39
Caractéristiques techniques	39

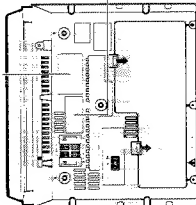
AVERTISSEMENT:
POUR RÉDUIRE LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL À LA PLUIE NI À L'HUMIDITÉ.

IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)

PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. DANGER: Inevitable laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside. Leave all adjustments to qualified service personnel.
4. CAUTION: The CD player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder or CD tray is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

NAME/RATING PLATE



Notes:

- 1 The date of manufacture.
- 2 The ID code of manufacturing plant.

FEATURES

Demo mode button (only when AC power is used)
When the AC power cord is plugged into an AC outlet, the unit enters the demo mode automatically. When you press the DEMO button while the unit's power is switched off, it also enters the demo mode. The demo mode display will change in succession and the 10-CD changer indicators blink. To cancel this mode, press the DEMO button and the unit's power will be switched off.
• The demo mode is automatically cancelled after being engaged for 12 hours consecutively.

- Multi-function 10-CD changer
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- One-touch operation (COMPU PLAY) (only when AC power is used)
- 37-key remote control unit
- Direct Disc Select/Skip Play/Search/Play/Continuous Play/Repeat Play/Random Play
- Programmed play of up to 20 tracks
- Double-cassette mechanism (Back A for recording and playback, Deck B for playback)
- (PC-XC70 only) Auto safety mechanism
- (PC-XC80 only) Auto safety mechanism
- 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability
- Seek/manual tuning
- Auto preset tuning
- Timer/Clock function

CARACTERÍSTICAS

Botón del modo de demostración (sólo cuando se usa alimentación CA)
Cuando se conecta el cordón de CA en el tomacorriente de CA, la unidad activa automáticamente el modo de demostración. Cuando usted presiona el botón DEMO mientras la unidad está apagada, también entra en el modo de demostración. Las indicaciones en el visor de indicación cambian en sucesión y las indicaciones del cambiador de 10 CD parpadean. Para cancelar este modo presione el botón DEMO y se desconectará la alimentación de la unidad.
• El modo de demostración quedará automáticamente desactivado después de estar activado durante 12 horas consecutivas.

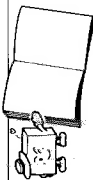
- Cambiador de 10-CD con múltiples funciones
- Circuito Active Hyper-Bass PRO para reproducción sonora de baja frecuencia
- Control de modo de sonido
- Operación de un solo toque (COMPU PLAY) (sólo uso con CA exclusivamente)
- Selección de control remoto con 37 teclas
- Selección directa de reproducción con salto/reproducción con salto de reproducción
- (PC-XC70 sólo) Mecanismo de seguridad
- (PC-XC80 sólo) Mecanismo de seguridad
- Reproducción programada hasta 20 pistas para grabación y reproducción, pista A para reproducción
- (PC-XC70 exclusivamente) Mecanismo de un solo cassette
- (PC-XC80 exclusivamente) Mecanismo de un solo cassette
- Sintonizador sintonizador digital de 2 bandas con capacidad para programación de 30 estaciones (15 FM y 15 AM)
- Sintonización búsqueda manual
- Sintonización programada automática
- Función de temporizador/reloj

CARACTERISTIQUES

Touche de mode de démonstration (uniquement quand l'alimentation CA est utilisée)
Quand le cordon d'alimentation CA est branché sur le secteur, l'appareil passe automatiquement en mode de démonstration. Quand vous appuyez sur la touche DEMO alors que l'alimentation de l'appareil est coupée, il passe également en mode de démonstration. Des indicateurs dans la fenêtre d'affichage changent les uns après les autres et les indicateurs des changeurs 10 CD clignotent. Pour annuler l'alimentation de l'appareil, appuyez sur la touche DEMO et la démonstration est annulée automatiquement après avoir été engagée pendant 12 heures consécutives.

- Changeur 10-CD à fonctions multiples
- Circuit hyper-grave actif PRO pour la reproduction du son basse fréquence
- Commande de mode de son
- Fonctionnement une touche (COMPU PLAY) (uniquement lorsque l'alimentation CA est utilisée)
- Télécommande à 37 touches
- Sélection continue lecture/lecture/lecture aléatoire
- Lecture programmée jusqu'à 20 pistes pour enregistrement et lecture, Piste A pour l'enregistrement et la lecture, Piste B pour la lecture
- (PC-XC70 uniquement) Mécanisme à simple cassette
- (PC-XC80 uniquement) Mécanisme à simple cassette
- Synchroniser à synchroiseur numérique 2 bandes avec capacité de préprogrammation de 30 stations (15 FM et 15 AM)
- Synchronisation par recherche/manuelle
- Synchronisation automatique des préprogrammés
- Fonction minuterie/horloge

SAFETY PRECAUTIONS



Prevention of Electric Shocks, Fire Hazards and Damage

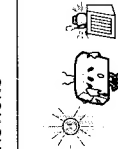
1. STAND BY: When the POWER button is set to standby, a very small current will flow to save power and for safety when not using the unit. Do not touch the power cord or the headshell AC outlet.
2. Do not handle the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
5. Do not bend the cord severely, or pull or twist it.
6. Do not modify the power cord in any manner.
7. To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not touch the unit's ventilation holes that are located on the back of the unit. Do not place the unit in a badly ventilated place.
12. Since this unit uses a motor-driven CD holder or CD tray, make sure that your hand or other object does not obstruct holder or tray movement.
13. Since the speaker sections of this unit are detachable, be sure that each speaker is firmly connected to the main unit when carrying the unit and avoid dropping or striking it, and other forms of impact.

POWER button

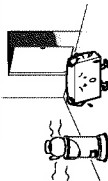
When the power cord is connected to a household AC outlet, the power indicator will light up. When the POWER button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor when the POWER button is set to STANDBY.

HANDLING PRECAUTIONS



Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C (104°F).



No utilize esta unidad bajo la luz directa del sol ni la deje en automóviles cerrados (yates, etc.) donde podría estar expuesta a temperaturas elevadas de 40°C.

PRECAUTIONS DE MANIPULACION

PRECAUTIONS DE MANIPULATION



No pas utilizar cet appareil en plein soleil ni le laisser dans une voiture fermée (ou un yacht, etc.) où il pourrait être exposé à des températures élevées au-dessus de 40°C.

PRECAUCIONES DE SEGURIDAD

Prevención de choques eléctricos, peligro de incendio y daños

1. Al encender el botón de alimentación POWER, una pequeña corriente eléctrica fluye al interior de la unidad y por seguridad cuando no utiliza esta unidad durante un largo periodo, el cordón eléctrico de alimentación de la unidad se desconecta de la toma corriente de CA.
2. No manipule el cordón eléctrico con las manos húmedas.
3. Cuando desconecte el tomacorriente de la pared, sujételo siempre por el enchufe, nunca por el cordón.
4. En caso de que el cordón sea electificado por daños, desconéctelo, o láselo, contacte, consulte a su agente más cercano.
5. No doble en ángulo agudo el cordón, no lo use como estaca para colgar ropa, etc.
6. No modifique el cordón eléctrico de ninguna manera.
7. Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no toque nada dentro de la misma.
8. No inserte ningún objeto metálico dentro de la unidad.
9. Desconecte el cordón eléctrico cuando haya posibilidad de cada de rayos.
10. Si se introduce agua dentro de la unidad, desconecte el cordón eléctrico del tomacorriente y consulte a su agente más cercano.
11. No toque los orificios de ventilación que se encuentran en la parte posterior de la unidad. No coloque la unidad en un lugar mal ventilado.
12. Como esta unidad utiliza un portadisco o un tray CD motorizado, asegúrese de que su mano u otro objeto no obstruya el movimiento del mismo.
13. Como los altavoces de esta unidad pueden ser extraídos, asegúrese de que cada altavoz esté firmemente conectado a la unidad principal y evite dejarla caer, golpearla, o someterla a otros tipos de impacto cuando los transporta.

Boton POWER

Cuando se conecta el cordón eléctrico al tomacorriente de CA, el indicador de alimentación se enciende. Cuando se presiona el botón POWER, el indicador de alimentación se apaga y se enciende la ventanilla de indicación.

Esta unidad consume una pequeña corriente cuando se la conecta a un tomacorriente de CA para mantener el control remoto y el temporizador o el controlador de memoria en la memoria para apoyo de la memoria del microprocesador, aun cuando se haya colocado el botón POWER en STANDBY.

Touche d'alimentation (POWER)

Cuando el cordón d'alimentation est branché sur une prise secteur, l'indicateur d'alimentation est allumé en rouge. Quand la touche POWER est pressée, l'indicateur d'alimentation s'éteint et la fenêtre d'affichage s'allume.

Lorsque cet appareil est branché à une prise secteur, il consomme un léger courant pour commander la télécommande et la minuterie, ou pour maintenir la mémoire du microprocesseur, même quand la touche POWER est sur STANDBY.

- Cuando ocurre una falla de funcionamiento.
 - Desenchufar el cordón de CA del tomacorriente y extraiga todas las pilas. Luego reconecte las pilas después de unos minutos.
 - Desconecte el cordón de alimentación y retire las pilas.
 - Conecte ON la alimentación.

1. Evite instalar en los siguientes lugares
 - Donde pueda ser sujeta a vibraciones.
 - Donde haya humedad excesiva, tal como en un baño.
 - Donde pueda ser magnetizada por un imán.
2. Preste atención al polvo
 - Después de cerrar el portadisco o compartimento de CD para que el polvo no se deposite sobre la lente.
3. Condensación
 - En los siguientes casos, puede producirse condensación dentro de la unidad y en consecuencia la unidad no funcionará correctamente.
 - En una sala donde haya un calefactor.
 - En un lugar donde haya humedad o gran humedad.
 - Cuando se trasladó rápidamente la unidad de una sala fría a una templada.
4. Ajuste del volumen
 - Los productos de CD producen muy poco ruido. Si el nivel de volumen es demasiado alto, los altavoces pueden producir ruidos analógicos. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajuste como desee durante la reproducción.
5. No coloque cassettes de cinta, etc., próximos a los altavoces
 - Como hay imanes en los altavoces, no coloque cassettes o cintas magnéticas sobre los altavoces. Los datos grabados pueden ser borrados.
6. Mantenga esta unidad lejos de su TV
 - Cuando se usa esta unidad próxima a un TV, la imagen de éste puede ser distorsionada. Si ello ocurre, mueva esta unidad lejos del TV. Si esto no corrige el problema, evite usar esta unidad cuando el TV está encendido.
7. Limpieza del gabinete
 - Si el gabinete se ensucia, límpielo con un paño suave y seco. Nunca utilice benzina o solventes ya que estos pueden dañar la terminación de la superficie.
8. Cuando escucha con audífonos
 - No escuche con volumen alto ya que esto puede dañar sus oídos.
 - Por seguridad no conduzca mientras escucha esta unidad.
9. Manija para transporte
 - No levante ni baje la manija para transporte cuando la unidad está encendida. Si se cae, puede dañar la manija o la manija puede dañar la unidad.
10. Cuando se transporta esta unidad, desconecte OFF la alimentación siempre que sea posible, de lo contrario pueden ocurrir fallas.

- When abnormal operation occurs.
 - Unplug the AC power cord from the AC outlet and remove all the batteries. Then reload the batteries after a few minutes, reconnect the AC power cord and switch the power ON.
1. Avoid installing in the following places
 - Where it is subject to vibrations, such as in a bathroom.
 - Where it is excessively humid, such as a place where it could be magnetized by a magnet or speaker.
 2. Pay attention to dust
 - After closing the CD holder or CD tray so that dust does not collect on the lens.
 3. Condensation
 - In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.
 - In a room where a heater has just been switched on.
 - In a place where there is smoke or high humidity.
 - When the unit is moved directly from a cold to a warm place.
 - In these cases, set the POWER button to ON and wait 1 or 2 hours before use.
 4. Volume setting
 - CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume before operation and adjust it as required during the operation.
 5. Do not place cassette tapes, etc. near the speakers
 - Since there are magnets in the speakers, do not place tapes or magnetic cards on them. If recorded data could be erased.
 6. Keep this unit away from your TV
 - When this unit is used near a TV, the picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is on.
 7. Cleaning the cabinet
 - If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.
 8. When listening with headphones
 - Do not listen at high volumes as it could damage your hearing.
 - For safety, do not drive while listening to this unit.
 9. Carrying the unit
 - Do not move the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle so that it does not interfere with operation.
 10. It is recommended to switch the power OFF (STANDBY) when you transport the unit.
 - Otherwise a malfunction may occur in the unit.

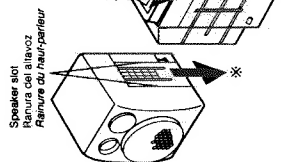
- Cuando un funcionamiento anormal se produce.
 - Desenchufar el cordón de alimentación sector de la prise de courant et retirer toutes les piles. Puis remettre les piles au bout de quelques minutes, reconnecter le cordon d'alimentation et mettre l'alimentation sur marche.
1. Eviter l'installation dans les endroits suivants
 - Où il pourrait être sujet aux vibrations.
 - Dans des endroits trop humides, comme une salle de bains.
 - Où il pourrait être magnétisé par un aimant ou un haut-parleur.
 2. Faire attention à la poussière
 - Bien s'assurer de fermer le porte disque ou le tiroir CD pour que la poussière ne s'accumule pas sur la lentille.
 3. Condensation
 - Dans les cas suivants, la condensation peut se produire dans l'appareil, dans ce cas l'appareil peut ne pas fonctionner correctement.
 - Dans une pièce où le chauffage vient juste d'être mis.
 - Dans un endroit sujet à la fumée ou à l'humidité.
 - Quand l'appareil est déplacé directement d'un endroit froid à un endroit chaud.
 - Dans ces cas, mettre la touche POWER sur ON et attendre 1 ou 2 heures avant de l'utiliser.
 4. Réglage du volume
 - Un disque audionumérique produit un souffle très faible comparé à des sources analogiques. Si le niveau de volume est réglé pour ces sources, les haut-parleurs peuvent être endommagés par une augmentation soudaine du niveau de sortie. Par conséquent, baisser le volume avant le fonctionnement et le régler comme requis pendant la lecture.
 5. Ne pas placer de cassette, etc. près des haut-parleurs
 - Comme il y a des aimants dans les haut-parleurs, ne pas placer de bande enregistrée ou de carte magnétique à proximité, un important matériel enregistré peut être effacé.
 6. Ne pas cet appareil éloigné de votre téléviseur
 - Si cet appareil est utilisé près d'un téléviseur, l'image du téléviseur peut être distordue. Si cela arrive, éloigner cet appareil du téléviseur. Si ce n'est pas suffisant, éviter d'utiliser cet appareil quand le téléviseur est en marche.
 7. Nettoyage du coffret
 - Si le coffret devient sale, l'essuyer avec un chiffon doux et sec. Ne pas utiliser de benzine ou de diluant qui pourrait abîmer le fini.
 8. En écoutant avec un casque d'écoute
 - Ne pas écouter à volume trop élevé car cela risque de provoquer des troubles de l'oreille.
 - Pour des raisons de sécurité, ne pas conduire en écoutant cet appareil.
 9. Poignée de transport
 - Ne pas relever ou abaisser la poignée de transport avec l'antenne télescopique sortie, car elle pourrait endommager l'antenne ou la poignée de transport, pour qu'elle ne gêne pas le fonctionnement.
 10. Lorsque cet appareil est porté, couper l'alimentation dans la mesure du possible
 - Sinon, un mauvais fonctionnement peut se produire dans l'appareil.

11. Pay attention to the following
 - Do not touch the lens.
 - Do not apply shock to the unit.
 - Press the CD tray (▲) OPEN/CLOSE button to close the CD tray. (Do not close it by hand).
 - It is recommended to remove CDs from the CD changer when you transport the unit.

11. Preste atención a lo siguiente
 - No toque la unidad sobre un plano inclinado.
 - No aplique golpes a la unidad.
 - Para cerrar el portadisco de CD, presione el botón OPEN/CLOSE (▲) del mismo. (No lo cierre con la mano).
 - Para transportar la unidad y si es posible, extraiga los CD del cambiador.

ATTACHING/DETACHING THE SPEAKERS

When using the speakers attached to the main unit
Align the bottom of the speaker against the top of the main unit and press down on the speaker to attach it.



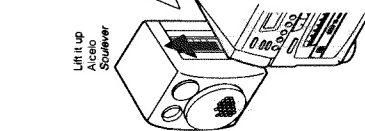
Press the speaker down with the speaker and main unit aligned.
Baje el altavoz luego de alinearlo con la unidad principal.
Apoyar sur le haut-parleur, celui-ci et l'appareil étant alignés.

FIJACION/RETIRO DE LOS ALTAVOCES

Cuando utiliza los altavoces colocados en la unidad principal
Alinee la parte inferior del altavoz con la parte superior de la unidad principal y presione el altavoz hacia abajo para colocarlo.



When using the speakers detached from the main unit
While pressing the lock lever at the rear bottom of the speaker in the direction of the arrow, lift the speaker up to detach from the main unit.



Cuando utiliza los altavoces separados de la unidad principal
Mientras presiona la palanca de bloqueo ubicada en la parte inferior de la parte inferior del altavoz en la dirección de la flecha, levante el altavoz para separarlo de la unidad principal.

Utilisation des haut-parleurs détachés de l'appareil principal
Tout en pressant le levier de verrouillage en bas à l'arrière du haut-parleur dans le sens de la flèche, soulevez le haut-parleur pour le détacher de l'appareil principal.

While pressing the lock lever,
Mientras presiona la palanca de fijación,
Tout en pressant le levier de verrouillage...

Lock lever
Palanca de fijación
Lever de verrouillage

Rear side of the speaker
Lado posterior de altavoz
Côté arrière du haut-parleur

Note:
Since the speakers sound differently according to where they are placed, please refer to the length of the provided speaker cords. It is recommended that the left and right speakers be placed symmetrically in relation to the main unit.

Note:
Como los altavoces suenan diferente de acuerdo a donde se colocan, consulte los cables de los altavoces con precaución para obtener un efecto óptimo dentro de la longitud de los cables para altavoces suministrados. Se recomienda colocar los altavoces izquierdo y derecho simétricamente en relación a la unidad principal.

Remarque:
Comme les haut-parleurs sonnent différemment en fonction de l'endroit où ils sont placés, bien les placer pour obtenir l'effet optimal dans la limite de la longueur des cordons des haut-parleurs. Il est recommandé de placer les haut-parleurs gauche et droit symétriquement par rapport à l'appareil principal.

CONNECTIONS

- Do not switch the power on until all connections are completed.

- When connecting the speaker cords, connect the one marked with a line to the \oplus terminal first.
- Alta voz: Conecte primero el cable marcado con una línea al terminal \oplus .
- Lors du raccordement des cordons des haut-parleur, connecter d'abord le fil marqué d'une ligne à la borne \oplus .

CONEXIONES

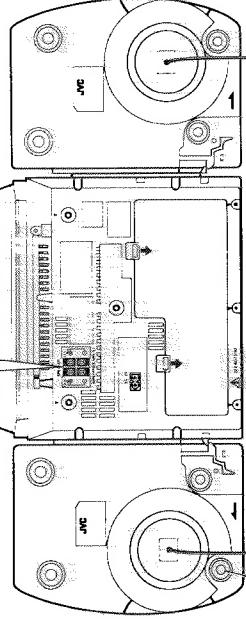
- No conecto la alimentación hasta haber completado todas las conexiones.

- Como los altavoces suenan diferente de acuerdo a donde se colocan, consulte los cables de los altavoces con precaución para obtener un efecto óptimo dentro de la longitud de los cables para altavoces suministrados. Se recomienda colocar los altavoces izquierdo y derecho simétricamente en relación a la unidad principal.

RACCORDEMENTS

- Ne pas mettre l'appareil sous tension tant que tous les raccordements ne sont pas terminés.

- Comme les haut-parleurs sonnent différemment en fonction de l'endroit où ils sont placés, bien les placer pour obtenir l'effet optimal dans la limite de la longueur des cordons des haut-parleurs. Il est recommandé de placer les haut-parleurs gauche et droit symétriquement par rapport à l'appareil principal.

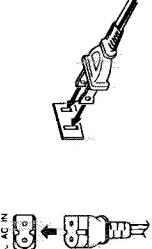


- After connecting the speaker cords, bundle any slack into the space for the speaker cords in the rear panel.
- Después de conectar los cordones de los altavoces, enrollar el sobrante dentro del espacio para los cordones de los altavoces, situado en el panel posterior.
- Après le raccordement des cordons de haut-parleur, tordre le mou dans la place pour les cordons de haut-parleur dans le panneau arrière.

POWER SUPPLY

A. Operation on household AC

- Connect the AC power cord after all other connections have been made.



- The provided AC power cord for this unit has certain one-way direction connections to prevent electric shock. Refer to the illustration for correct connection.

ALIMENTACION

A. Operación con CA en el hogar

- Conecte el cordón de CA después de haber terminado todas las conexiones.

(For Canada)
CAUTION
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- El cordón de CA suministrado con esta unidad tiene ciertas conexiones en un solo sentido, para prevenir electrocuciones. Refiérase a la ilustración para su conexión correcta.

ALIMENTATION

A. Fonctionnement sur secteur

- Brancher le cordon d'alimentation CA une fois que tous les autres raccordements ont été effectués.

(pour Canada)
ATTENTION
POUR PREVENIR LES CHOC ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

- Le cordon d'alimentation secteur fourni avec cet appareil ne peut être branché que dans un seul sens afin d'éviter tout risque de choc électrique. Se référer à l'illustration pour le raccorder correctement.

PRECAUTIONS:

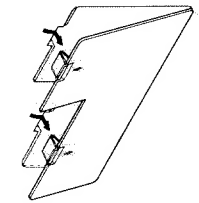
- FOR AVOID DAMAGE TO THE UNIT, DO NOT REMOVE THE POWER CORD FROM THE UNIT WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.
- BE SURE TO UNPLUG THE POWER CORD FROM THE UNIT WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

PRECAUTIONS:

- TO AVOID DAMAGE TO THE UNIT, DO NOT REMOVE THE POWER CORD FROM THE UNIT WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.
- BE SURE TO UNPLUG THE POWER CORD FROM THE UNIT WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

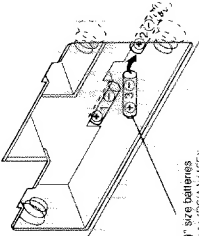
B. Batteries for memory back-up system

It is recommended that batteries be loaded to prevent the preset station memory and timer, etc. from being erased when there is a power failure, or when the AC power cord is disconnected.



- Load three "R6/AA (15F)" size batteries (optional), into the battery compartment.

- Colocación de las pilas
Cocque tres pilas de tamaño "R6/AA (15F)" (opcionales), dentro del compartimento para las mismas.



- Mise en place des piles
Mettre trois piles de taille "R6/AA (15F)" (en option) dans le compartiment des piles.

Notes:

- Las tres pilas tamaño "R6/AA (15F)" suministran energía al sistema de apoyo de memoria que evita que los contenidos de la memoria se pierdan cuando hay un corte de energía. Cuando se desconecta el cordón de alimentación, la unidad no consume la energía de las pilas (Si se activa la función de apoyo de memoria, la unidad no indica la hora para reducir el consumo de energía).
- Si el cordón de CA no está conectado o si las pilas tamaño "R20/D (13F)" no están colocadas, las pilas deben ser reemplazadas por nuevas cada tres meses aproximadamente. Conecte el cordón de CA para reemplazar las pilas. Si se desconecta el cordón de CA, asegúrese de desconectar OFF la alimentación de la unidad principal.

- Las tres pilas de tamaño "R6/AA (15F)" alimentan el sistema de soporte de memoria que evita la pérdida de contenido de la memoria cuando hay un corte de energía. Cuando se desconecta el cordón de alimentación, la unidad no consume la energía de las pilas (Cuando la función de soporte de memoria está activada, la hora no se muestra para reducir el consumo de energía).
- Lorsque le cordon d'alimentation CA n'est pas branché ou que des piles de taille "R20/D (13F)" ne sont pas installées, les piles doivent être remplacées par des nouvelles environ tous les trois mois. Branchez le cordon d'alimentation CA pour remplacer les piles. Si vous débranchez le cordon d'alimentation CA, assurez-vous de bien introduire les piles dans les bornes \oplus et \ominus positionnées correctement. Toutefois, s'assurer de couper l'alimentation de l'appareil principal.

C. Operation on batteries

• Loading batteries

- Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
- Insert nine "R20/D (13F)" size batteries as shown in the diagram.
- Be careful to insert the batteries with the \oplus and \ominus terminals positioned correctly.
- Replace the cover.

C. Operación con pilas

• Colocación de las pilas

- Abra la tapa del compartimento de las pilas jalándola hacia usted mientras presiona las secciones marcadas con las flechas.
- Inserte nueve pilas "R20/D (13F)" como se muestra en el diagrama.
- Tome precauciones para insertar las pilas con los terminales \oplus y \ominus correctamente posicionados.
- Cocque la tapa.

C. Fonctionnement sur piles

• Mise en place des piles

- Ouvrir le compartiment des piles en tirant le couvercle vers vous tout en appuyant sur les endroits marqués de flèches.
- Introduire neuf piles de taille "R20/D (13F)" comme montré sur le schéma.
- Faire attention de bien introduire les piles avec les bornes \oplus et \ominus positionnées correctement.
- Remettre en place le couvercle.

NOMS DES PIÈCES ET LEURS FONCTIONS

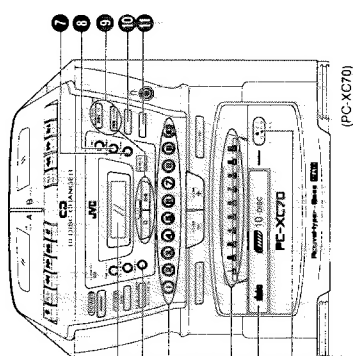
NOMBRES DE LAS PARTES Y SUS FUNCIONES

NAMES OF PARTS AND THEIR FUNCTIONS

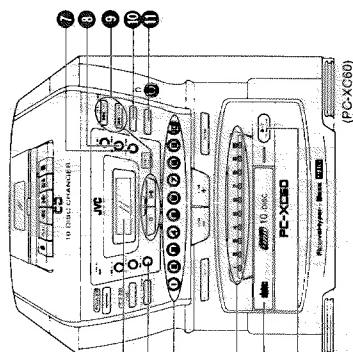
CD changer section

Sección del cambiador de CD

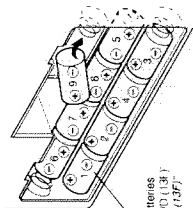
Section changeur CD



(PC-XC70)



(PC-XC60)



R20D (1.3F) size batteries
Pilas de tamaño R20D (1.3F)
Pilas de taille R20D (1.3F)

Reemplazo de las pilas

Cuando se enciende la indicación de la pila (L), si sigue en funcionamiento durante el funcionamiento de las pilas, las pilas mismas están casi agotadas y deben ser reemplazadas. (Cuando la indicación de las pilas permanece encendida durante un minuto aproximadamente, la alimentación de la unidad se desconecta automáticamente.)

Cuando utilice las pilas, y para evitar cualquier talía posible en la grabación (L) en la reproducción, se recomienda utilizar pilas alcalinas con una vida de servicio más larga.

- Para una mejor utilización de las pilas Si este aparato se utiliza continuamente, las pilas se gastarán más rápido que si se utiliza de vez en cuando. Si se utiliza en un lugar frío, las pilas se consumirán más rápidamente que si se utiliza en un lugar cálido.
- Para el suministro de energía se recomienda utilizar CA del hogar, cuando desee operar la unidad continuamente durante un largo período.

Remplacement des piles

Cuando la indicación de pila (L) s'allume en fonctionnement sur pile, les piles sont pratiquement usées et doivent être remplacées. (Si l'indicateur de pile reste allumé pendant environ une minute, l'alimentation de l'appareil est coupée.)

En fonctionnement sur piles, pour éviter toute panne possible en enregistrement ou en lecture, l'utilisation de piles alcalines avec une durée de service plus longue est recommandée.

- Pour une meilleure utilisation des piles Si l'appareil est utilisé en continu sans arrêt, les piles s'useront plus rapidement que si l'appareil est utilisé en l'arrêt de temps en temps. Si l'appareil est utilisé dans un endroit froid, les piles s'useront plus rapidement que si l'appareil est utilisé dans un endroit chaud.
- Pour l'alimentation, l'utilisation du secteur CA continu de l'appareil est nécessaire pendant une longue durée.

PRECAUTIONS:

- SI L'APPAREIL N'EST PAS UTILISÉ PENDANT UNE LONGUE PÉRIODE (PLUS DE DEUX SEMAINES) OU S'IL EST UTILISÉ EN UN ENDROIT FROID, IL FAUT RETIRER LES PILES POUR ÉVITER UN MAUVAIS FONCTIONNEMENT OU DES DOMMAGES À L'APPAREIL.
- LORSQUE LE CORDON D'ALIMENTATION JVC FOURNI AVEC CET APPAREIL EST BRANCHE, L'ALIMENTATION AUTOMATIQUEMENT COMMUTÉE DES PILES SUR LE SECTEUR CA MEME QUAND LES PILES SONT EN PLACE. PAR CONSÉQUENT, RETIRER LES PILES EN DÉBRANCHANT LE CORDON D'ALIMENTATION.

PRECAUTIONES:

- SI NO VA A UTILIZAR LA UNIDAD DURANTE LARGO TIEMPO (MÁS DE DOS SEMANAS), O CUANDO UTILICE CA DEL LUGAR FRÍO, RETIRE LAS PILAS PARA EVITAR DAÑOS A LA UNIDAD.
- CUANDO SE CONECTA EL CORDÓN DE ALIMENTACIÓN DE JVC DE ESTA UNIDAD, LA ALIMENTACIÓN CONMUTA AUTOMÁTICAMENTE LAS PILAS A CA AUN CUANDO LAS PILAS ESTÉN COLOCADAS. SIN EMBARGO, RECOMENDAMOS QUE EXTRAIGA LAS PILAS CUANDO UTILIZA EL CORDÓN DE ALIMENTACIÓN.

CAUTIONS:

- WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSEHOLD AC, REMOVE THE BATTERIES TO PREVENT MALFUNCTION OR DAMAGE TO THE UNIT.
- WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED, THE POWER IS AUTOMATICALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN THE BATTERIES ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

PRECAUTIONS PARA EL USO DE LAS PILAS

Si las pilas son incorrectamente usadas, los productos químicos de las mismas pueden escapar y causar daños. Es necesario tomar las siguientes precauciones:

- Verifique que los terminales (+ y -) negativos (-) de las pilas estén correctamente colocados de acuerdo al diagrama.
- No mezcle pilas nuevas y viejas, ni mezcle diferentes tipos de pilas.
- No intente recargar las pilas que no sean recargables.
- Extraiga las pilas cuando no vaya a utilizar la unidad durante un largo período.

Si los productos químicos provenientes de las pilas entran en contacto con su piel, lávese inmediatamente con agua. Si los productos químicos caen sobre esta unidad, límpielela completamente.

CAUTIONS WHEN USING BATTERIES

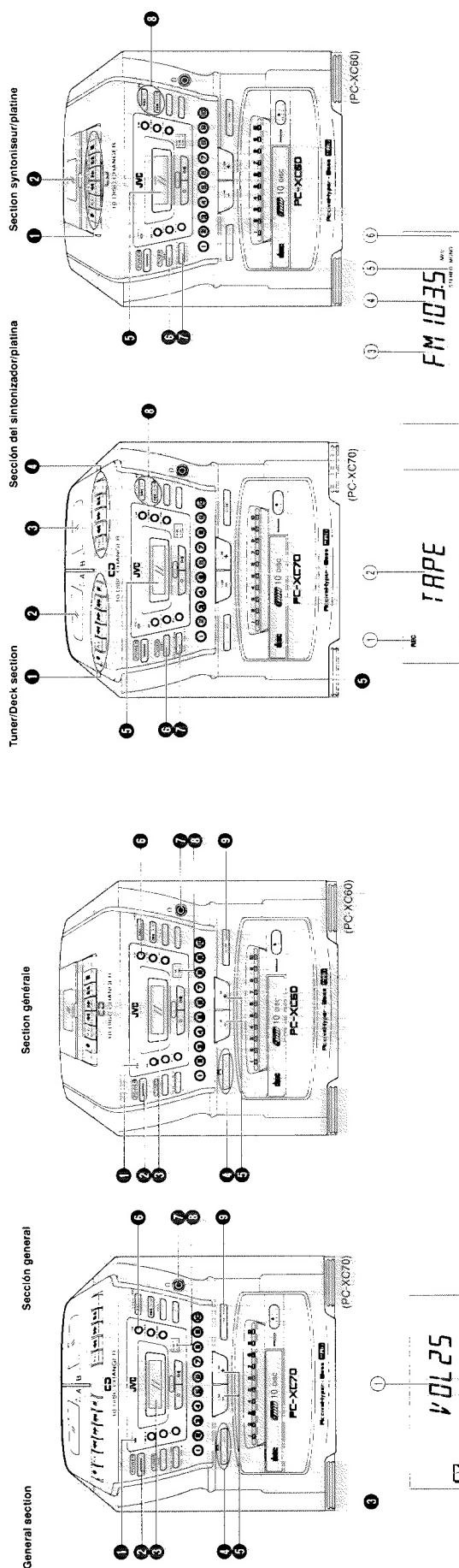
When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode. The following care should be taken:


- Check that the positive (+) and negative (-) terminals of the batteries are positioned correctly, and load them as shown in the diagram.
- Do not mix new and old batteries together, or mix different types of batteries.
- Do not try to recharge non-rechargeable batteries.
- Remove the batteries when the unit is not to be used for an extended period of time.

If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.


- 1 Display window (Backlit when AC power is supplied.)
- 2 Disc number display
- 3 Program mode indicator (PROGRAM)
- 4 CD tray
- 5 DISC play indicator
- 6 RANDOM play indicator
- 7 Repeat play indicator (≒ ALL)
- 8 Function/Disc number/Track number display
- 9 Track number/Playback time display
- 10 DISPLAY button
- 11 CD CONTROL buttons (DISC 1-DISC 10)
- 12 CD tray
- 13 OPEN/CLOSE button
- 14 PROGRAM button
- 15 CONTINUE play button
- 16 CD operation buttons
- 17 Play/pause button (≒ II)
- 18 Press to play a CD or to stop temporarily. Stop/clear button (L): Press to stop playing a CD or cancel programmed play.
- 19 CD SEARCH buttons (≒ I, ≒ II): Press to locate the beginning of a track and to advance/reverse search operations.
- 20 TRACK button
- 21 +10 button

- 1 Fenêtre d'affichage (Rétro-éclairée quand l'alimentation CA est fournie.)
- 2 Affichage de numéro de disque
- 3 Indicateur de mode programmé (PROGRAM)
- 4 Compartiment du disque
- 5 Indicateur de lecture CONTINUE
- 6 Indicateur de lecture ALÉATOIRE (RANDOM)
- 7 Indicateur de lecture répétée (≒ ALL)
- 8 Affichage de fonction/numéro de disque/numéro de piste
- 9 Affichage de numéro de piste/durée de lecture
- 10 Touche d'affichage (DISPLAY)
- 11 Touches de commande CD (DISC 1-DISC 10)
- 12 Compartiment du disque
- 13 Touche d'ouverture/fermeture (OPEN/CLOSE) (≒ I) du tiroir CD
- 14 Touche de programme (PROGRAM)
- 15 Touche de lecture CONTINUE
- 16 Touches de fonctionnement CD
- 17 Touche de lecture/pause (≒ II): Presser pour lire un disque et pour arrêter momentanément.
- 18 Touche de lecture/pause (≒ II): Presser pour arrêter la lecture d'un disque ou pour annuler la lecture programmée.
- 19 Touches de recherche CD SEARCH (≒ I, ≒ II): Presser pour localiser le début d'une piste et pour lancer la recherche avant/arrière.
- 20 Touche TRACK
- 21 Touche +10





- ➊ **Power STANDBY indicator**
 - ➋ **POWER button**
 - ➌ **Display window**
 - ➍ **VOLUME level indicator**
 - ➎ **Sound mode indicators**
Demo mode indicators
 - ➏ **Battery indicator** ()



➊ See page 33 for the clock adjustment.

 - ➐ **ACTIVE HYPER-BASS PRO button and indicator**
 - ➑ **VOLUME buttons** (+, -)
 - ➒ **DEMO button**
 - ➓ **Headphones jack** () (3.5 mm dia. stereo mini)

Connect headphones (impedance 16 Ω to 1 k Ω) to this jack. Speaker sound is automatically switched off when the headphones are connected.

 - ➐ **REMOTE SENSOR section**
 - ➑ **SOUND button**
 - ➐ **Indicator of espera (STANDBY) de alimentación**
 - ➑ **Botón de alimentación (POWER)**
 - ➒ **Ventanilla de indicación**
 - ➓ **Indicadores de nivel de VOLUME**
Indicaciones del modo de sonido
Indicadores de modo de demostración
 - ➐ **Indicador de pila** ()
 - ➑ **Para el ajuste del reloj, ver la página 33.**
 - ➐ **Botón e indicador de hiper grave activo profesional (ACTIVE HYPER BASS PRO)**
 - ➑ **Botones de volumen (VOLUME) (+, -)**
 - ➒ **Botón DEMO**
 - ➓ **Jack de audífonos** () (mini estereo de 3.5 mm de diám.)

Conecte los audífonos (impedancia de 16 Ω a 1 k Ω), a esta jack. El sonido de los altavoces se apagará automáticamente cuando se conectan los audífonos.

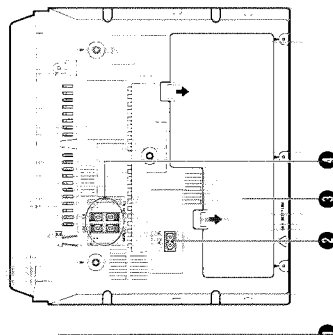
 - ➐ **Sección sensor remoto (REMOTE SENSOR)**
 - ➑ **Botón SOUND**
 - ➐ **Indicador d'attente d'alimentation (STANDBY)**
 - ➑ **Touche d'alimentation (POWER)**
 - ➒ **Fenêtre d'affichage**
 - ➓ **Indicateurs de niveau VOLUME**
Indicateurs de mode de son
Indicateurs de mode de démonstration
 - ➐ **Indicateur des piles** ()
 - ➑ **Voir page 33 pour le réglage de l'horloge.**
 - ➐ **Touche hyper grave actif pro (ACTIVE HYPER-BASS PRO) et indicateur**
 - ➑ **Touches de VOLUME (+, -)**
 - ➒ **Touche DEMO**
 - ➓ **Prise de casque d'écoute** () (mini stéréo de 3,5 mm de diamètre)

Branchez un casque (impédance de 16 Ω à 1 k Ω) à cette prise. Les haut-parleurs seront automatiquement coupés quand le casque est branché.

 - ➐ **Section sensor remote (REMOTE SENSOR)**
 - ➑ **Touche de son (SOUND)**
 - ➐ **Cassette operation buttons**
Press this button with the cassette in the cassette holder.
▶ **PLAY**: Press to play the tape.
▶ **REW**: Press to rewind the tape rapidly.
▶ **FF**: Press to wind the tape forward rapidly.
■ **STOP/EJECT**: Press to stop the tape.
Pressing this button when the cassette holder is open will eject the tape.
Press to stop the tape temporarily. Press again to temporarily pause mode.
■ **PAUSE**: Press again to temporarily pause mode.
 - ➑ **Cassette holder (Deck A)**
(PC-XC70 only)
(PC-XC60 only)
(PC-XC70 only)
 - ➓ **Cassette holder (Deck B)**
(PC-XC60 only)
(PC-XC70 only)
 - ➐ **Cassette operation buttons**
▶ **PLAY**: Press to play the tape.
▶ **REW**: Press to rewind the tape rapidly.
▶ **FF**: Press to wind the tape forward rapidly.
■ **STOP/EJECT**: Press to stop the tape.
Pressing this button when the cassette holder is open will eject the tape.
Press to stop the tape temporarily. Press again to temporarily pause mode.
▶ **PLAY**: Press to play the tape.
 - ➑ **Display window**
➐ **Recording indicator (REC)**
➑ **Tape (TAPE) mode display**
➒ **Band indicator**
➓ **Radio frequency display**
➐ **Preset station display**
➑ **STEREO indicator**
➒ **MONO indicator**
 - ➐ **Touche de fonctionnement cassette**
Appuyez sur cette touche avec la cassette dans le porte cassette.
▶ **PLAY**: Appuyez pour lire la bande.
▶ **REW**: Appuyez pour rembobiner rapidement la bande.
▶ **FF**: Appuyez pour faire défiler rapidement la bande en avant.
■ **STOP/EJECT**: Appuyez pour arrêter la bande. Une pression sur cette touche quand la bande est enroulée ouvre le porte cassette.
 - ➑ **Porte cassette**
(PC-XC70 uniquement)
(PC-XC60 uniquement)
 - ➓ **Porte cassette**
(PC-XC70 uniquement)
(PC-XC60 uniquement)
 - ➐ **Touche de fonctionnement cassette**
Appuyez pour lire la bande.
▶ **PLAY**: Appuyez pour rembobiner rapidement la bande.
▶ **FF**: Appuyez pour faire défiler rapidement la bande en avant.
■ **STOP/EJECT**: Appuyez pour arrêter la bande. Une pression sur cette touche quand la bande est enroulée ouvre le porte cassette.
 - ➑ **Fenêtre d'affichage**
➐ **Indicateur d'enregistrement (REC)**
➑ **Affichage du mode de bande (TAPE)**
➒ **Indicateur de gamme**
➓ **Affichage de la fréquence radio**
➐ **Préstation station display**
➑ **Indicateur stéréo (STEREO)**
➒ **Indicateur mono (MONO)**
 - ➐ **Botones para operación del cassette**
Presione esta botón con la cinta en el portacasete.
▶ **PLAY**: Presione para iniciar la grabación.
▶ **REW**: Presione para reproducir la cinta.
▶ **FF**: Presione para rebobinar rápidamente la cinta.
▶ **FF**: Presione para avanzar la cinta hacia adelante rápidamente.
■ **STOP/EJECT**: Presione para detener la cinta. El presionar este botón cuando la cinta está enrollada abre el portacasete.
■ **PAUSE**: Presione para detener la cinta temporalmente. Presione otra vez para desactivar el modo de pausa.
 - ➑ **Portacassete (Platina A)**
(PC-XC70 exclusivamente)
(PC-XC60 exclusivamente)
 - ➓ **Portacassete (Platina B)**
(PC-XC70 exclusivamente)
(PC-XC60 exclusivamente)
 - ➐ **Touche de fonctionnement cassette**
Appuyez pour lire la bande.
▶ **PLAY**: Appuyez pour rembobiner rapidement la bande.
▶ **FF**: Appuyez pour faire défiler rapidement la bande en avant.
■ **STOP/EJECT**: Appuyez pour arrêter la bande. Une pression sur cette touche quand la bande est enroulée ouvre le porte cassette.
 - ➑ **Ventanilla de indicación**
➐ **Indicador de grabación (REC)**
➑ **Indicación del modo de cinta (TAPE)**
➒ **Indicación de banda**
➓ **Indicación de frecuencia de radio**
➐ **Indicación de estación preestablecida**
➑ **Indicador estereofónico (STEREO)**
➒ **Indicador monofónico (MONO)**

- 1 **TUNERBAND button**
Press to select the mode.
Press to select the band.
- 2 **PRESET TUNING/AUTO PRESET button**
Press to select the band.
- 3 **Tuning buttons (UP/DOWN)**
Press to select the band.

Rear panel



- 1 Telescopic antenna
- 2 AC IN (AC input) jack
- 3 Battery compartment cover
- 4 SPEAKER terminals
- Connect the provided speakers to these terminals.

- 5 **Touche de syntoniseur/gamme (TUNER/BAND)**
Appuyez pour sélectionner le mode syntoniseur.
- 6 **Touche de syntonisation des prééglages (PRESET TUNING/PRÉÉGLAGE AUTOMATIQUE (AUTO PRESET))**
Appuyez pour sélectionner la gamme.
- 7 **Touche de syntonisation (UP/DOWN)**
Appuyez pour sélectionner la gamme.

Panneau arrière



- 1 Antenne télescopique
- 2 Prise d'entrée CA (AC IN)
- 3 Couverture du compartiment des piles
- 4 Bornes de haut-parleur (SPEAKER)
- Brancher les haut-parleurs fournis à ces bornes.

Using the remote control unit

- Point at the REMOTE SENSOR section and operate within about 7 m (approx. 23 ft).
• The effective range is less when the unit is used at an angle.
- Do not expose the REMOTE SENSOR section to strong direct sunlight or artificial lighting.
- Make sure that there are no obstacles between the REMOTE SENSOR section and the remote control unit.

The following operations can be performed using the remote control unit.

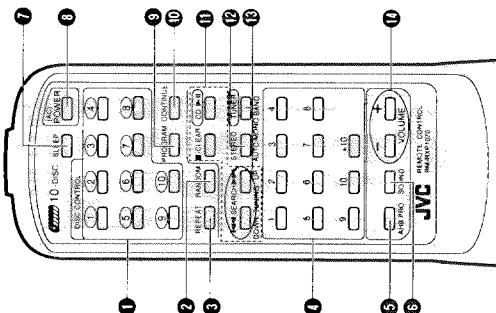
- Check the operation button functions carefully and operate them correctly.

Utilización de la unidad de control remoto

- Apunte hacia el sensor REMOTE SENSOR y haga la función dentro de un radio de 7 m (aprox. 23 ft).
• El alcance efectivo es menor cuando se usa el control remoto a un ángulo.
- No exponga la sección del detector de la luz fuerte (luz solar o iluminación artificial).
- Asegúrese de que no haya obstáculos entre el REMOTE SENSOR y el controlador remoto.

Las siguientes operaciones deben ser realizadas utilizando la unidad de control remoto.

- Compruebe detalladamente el funcionamiento de los botones de operación y opérelos correctamente.

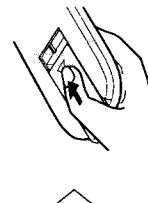


- 1 CD CONTROL buttons (DISC 1-DISC 10)
2 SOUND button
3 REPEAT button
4 Track number buttons (No. 1 to No. 10, +10)
5 ACTIVE HYPER-BASS PRO button
6 SOUND button
7 SLEEP button
8 POWER (AC) button
• When the main unit power is supplied from batteries, this POWER (AC) button cannot turn on main unit power. (In this case, set on the POWER button of the main unit.)
9 PROGRAM button
10 CONTINUE play button

- 1 Botones de control de CD (CD CONTROL) (DISC 1-DISC 10)
2 Botón de reproducción de sonido (SOUND)
3 Botón de repetición de reproducción (REPEAT)
4 Botones de número de pista (No. 1 a No. 10, +10)
5 Botones de pista
6 Botones (No. 1 a No. 10, +10) de estación presintonizada
7 Botón de hiper grave activo profesional (ACTIVE HYPER-BASS PRO)
8 Botón SOUND
9 Botón SLEEP
10 Botón de alimentación de CA (POWER (AC))
• Si la alimentación de la unidad principal proviene de pilas, el botón POWER (AC) no funciona como alimentación de la unidad principal. (En este caso, primero presione el botón POWER de la unidad principal.)
11 Botón programa (PROGRAM)
12 Botón de reproducción continuada (CONTINUE)

Préparatifs avant utilisation

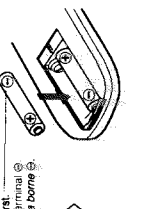
- Mise en place des piles dans le boîtier de télécommande
- Retirez la couverture des piles du dos du boîtier.
 - Insérez deux piles de taille "R6/AA (1.5V)".
 - Indications des bornes (+) et (-) dans le compartiment des piles.
 - Remettez en place la couverture.



- Remplacement des piles
- Si l'opération de la télécommande devient instable ou si la distance de fonctionnement devient plus courte, remplacez les piles.

Preparativos antes usarla

- Instalación de las pilas en la unidad de control remoto
- Extraiga la tapa de las pilas de la parte trasera de la unidad de control remoto.
 - Inserte las pilas de tamaño "R6/AA (1.5V)".
 - Indicaciones de las terminales (+) y (-) de acuerdo a la indicación en el interior del compartimento de las pilas.
 - Recoloque la tapa.



- Reemplazo de las pilas
- Cuando la operación del controlador remoto se vuelve inestable o la distancia dentro de la cual actúa se reduce, reemplace las pilas.

Preparation before use

- Installing batteries in the remote control unit
- Remove the battery cover from the back of the remote control unit.
 - Insert the batteries with the (+) and (-) terminals matching the indication inside the battery compartment.
 - Replace the cover.



- Battery replacement
- When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

Utilisation du boîtier de télécommande

- Pointer le boîtier de télécommande vers la section REMOTE SENSOR et l'utiliser dans une limite de 7 m environ.
- L'efficacité de la télécommande devient plus faible quand le boîtier est utilisé en formant un angle.
- Ne pas exposer la section du détecteur de la lumière forte (soleil ou éclairage artificiel).
- S'assurer qu'il n'y a pas d'obstacles entre la section du détecteur de télécommande et la télécommande.

Le fonctionnement suivant peut être effectué en utilisant le boîtier de télécommande.




- Bien étudier les fonctions des touches de fonctionnement et les utiliser correctement.

- 1 Touches de commande CD (CD CONTROL) (DISC 1-DISC 10)
2 Touche de lecture aléatoire (RANDOM)
3 Touche de lecture répétée (REPEAT)
4 Touches de numéro de piste (No. 1 à No. 10, +10)
5 Touches des stations prééglées (No. 1 à No. 10, +10)
6 Touche hyper grave actif pro (ACTIVE HYPER-BASS PRO)
7 Touche de son (SOUND)
8 Touche d'arrêt de sommeil (SLEEP)
9 Touche d'alimentation secteur (POWER (AC))
• Lorsque l'alimentation est fournie par les piles, cette touche POWER (AC) ne peut pas mettre en marche l'appareil principal. (Dans ce cas, mettez d'abord en marche la touche POWER de l'appareil principal.)
10 Touche de programme (PROGRAM)
11 Touche de lecture CONTINUE

COMPU PLAY (only when AC power is used)
Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

COMPU PLAY (solo cuando se usa CA)
Cuando la alimentación está colocada en STANDBY, el presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente.

COMPU PLAY (solo cuando se usa CA)
Même lorsque l'alimentation est éteinte, en pressant le bouton ci-dessous, la lumière s'allume et sélectionne la source.

Function mode Modo de función Mode fonction	Operations Operaciones Opérations
	When this button is pressed with a CD loaded, CD playback begins. Cuando se presiona este botón habiendo un CD colocado, comienza la reproducción del mismo. Lorsque cette touche est pressée avec un disque audio numérique chargé, la lecture CD commence.
	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. Lorsque cette touche est pressée, le sintoniseur est engagé.
	

When the timer display (Ⓢ) is shown, the power of this unit is not switched on, even when the deck's PLAY button is pressed.

Cuando aparece el indicador (Ⓢ) del temporizador, la alimentación de esta unidad no se conecta aun cuando se presione el botón PLAY de la platina.

Lorsque l'affichage de minutes (Ⓢ) est montré, l'alimentation de cet appareil n'est pas mise, même si la touche PLAY de la platine est pressée.

Notes:
• For disconnecting the power, be sure to press the POWER button on the remote control.
• The COMPU PLAY button on the remote control has the same function as that on the main unit.

Remarques:
• Pour couper l'alimentation, s'assurer de bien appuyer sur la touche POWER de la télécommande.
• Le bouton COMPU PLAY sur la télécommande a la même fonction que celle sur l'appareil principal.

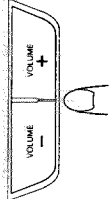
Remarques:
• Pour couper l'alimentation, s'assurer de bien appuyer sur la touche POWER de la télécommande.
• Le bouton COMPU PLAY sur la télécommande a la même fonction que celle sur l'appareil principal.

VOLUME, TONE AND OTHER CONTROLS

VOLUME buttons
Use to increase the volume.
+ : Up (Increase the volume)
- : Down (Decrease the volume)
(Control range from VOL 0 to VOL 25)

Botones VOLUME
+ : Para aumentar el volumen
- : Para reducir el volumen
(Los límites de control van de VOL 0 a VOL 25)

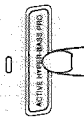
Touches de volume (VOLUME)
+ : Utiliser pour augmenter le volume.
- : Utiliser pour réduire le volume.
(Gamme de commande de VOL 0 à VOL 25)



ACTIVE HYPER-BASS PRO button
ON : The ACTIVE HYPER-BASS PRO indicator lights. Sound pressure is increased.
OFF : The ACTIVE HYPER-BASS PRO indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)
ON : Se enciende el indicador ACTIVE HYPER-BASS PRO. Colocado en esta posición, se aumenta el sonido hiper graves activo profesional.
OFF : Se apaga el indicador ACTIVE HYPER-BASS PRO. Colocado en esta posición cuando no desee escuchar el sonido de hiper graves activo profesional.

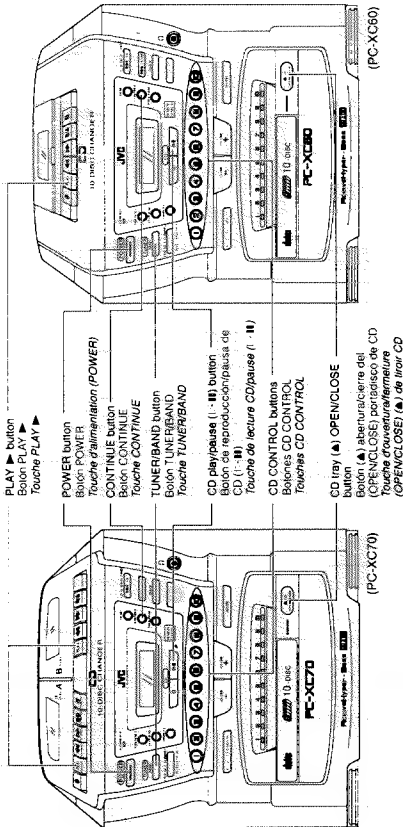
Touche hyper grave actif pro (ACTIVE HYPER-BASS PRO)
ON : L'indicateur ACTIVE HYPER-BASS PRO s'allume. Régler sur cette position pour augmenter le son hyper grave actif pro.
OFF : L'indicateur ACTIVE HYPER-BASS PRO s'éteint. Régler sur cette position lorsque le son hyper grave actif pro n'est pas nécessaire.



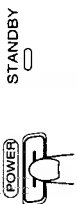
COMMUTATION MARCHE/ARRET DE L'ALIMENTATION

CONEXION/DESCONEXION DE LA ALIMENTACION

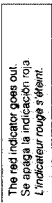
SWITCHING THE POWER ON/OFF



Switching the power on/off
• Switching on.



Conexión/desconexión de la alimentación
• Conexión.



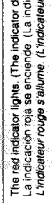
Commuation marche/arret de l'alimentation
• Mise en marche.



• Switching off.



• Desconexión.



• Mise à l'arrêt.

The red indicator goes out.
Se apaga la indicación roja.
L'indicateur rouge s'éteint.

The red indicator lights. (The indicator does not light when the power is supplied by batteries.)
La indicación roja se enciende. (La indicación no se enciende cuando la alimentación proviene de las pilas.)
L'indicateur rouge s'allume. (L'indicateur ne s'allume pas si l'alimentation est fournie par les piles.)

- Mistacking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip play

- During play, it is possible to skip forward to the beginning of the next track or back to the beginning of the track being played or the previous track, when the beginning of the required track has been located, play starts automatically.

To listen to the next track.

Press the **▶▶** button once to skip to the beginning of the next track.

To listen to the previous track...

Press the **◀◀** button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Search play (to locate the required position on the CD)

- The required position can be located using fast-forward or reverse search while playing a CD.

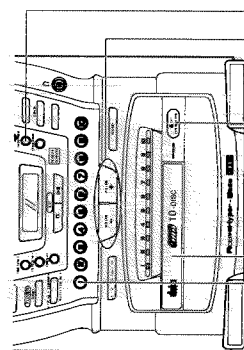


- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Continuous play

How to play all tracks

Operate in the order shown



- 1 Load the required CDs in the CD changer. (See page 18.)
- 2 Press the No. 1 CD CONTROL button to start play.
- 3 Press the CONTINUE button to set to continuous play mode.
- 4 Adjust.
- 5 CD play starts from Disc 1 and continues to the last track of the last CD in the CD changer.

- Une perte d'alignement peut se produire si l'unité reçoit un choc ou si elle est utilisée dans un endroit soumis aux vibrations (par exemple, dans une voiture roulant sur une chaussée en mauvais état.)

Saut de lecture

- Pendant la lecture, il est possible de sauter au début de la piste suivante ou revenir au début de la piste qui est lue. Appuyez deux fois sur la touche **▶▶** pour passer au début de la piste suivante, ou appuyez deux fois sur la touche **◀◀** pour revenir au début de la piste précédente. Quand le début de la piste requise a été localisée, la lecture commence automatiquement.

Pour écouter la piste suivante...

Appuyez deux fois sur la touche **▶▶** pour passer au début de la piste suivante.

Pour écouter la piste précédente...

Appuyez deux fois sur la touche **◀◀** pour passer au début de la piste qui est lue. Appuyez deux fois rapidement pour passer au début de la piste précédente.

Recherche en lecture (pour localiser la position voulue sur le disque)

- La position voulue peut être localisée en utilisant la recherche accélérée avant ou arrière pendant la lecture.

Maintenez pressé pour la recherche accélérée avant.

Maintenez pressé pour la recherche accélérée arrière.

Maintenez pressé pour la recherche accélérée avant.

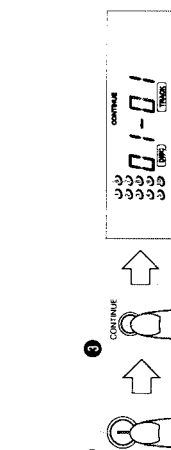
Maintenez pressé pour la recherche accélérée arrière.

- Maintenir pressée la touche, la lecture de la recherche commence lentement et puis la vitesse de recherche augmente graduellement.
- Comme un léger son (environ le quart du niveau de lecture) peut être audible dans le mode de recherche, relâchez la touche quand la position voulue est atteinte en contrôlant le son.

Lecture continue

Lecture de toutes les pistes

Procédez dans l'ordre indiqué



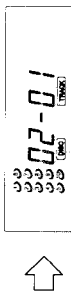
- 1 Chargez les disques requis dans le changeur CD. (Voir page 18.)
- 2 Appuyez sur la touche CD CONTROL No. 1 pour lancer la lecture.
- 3 Appuyez sur la touche CONTINUE pour passer en mode de lecture continue.
- 4 Réglez.
- 5 La lecture CD commence à partir du disque 1 et continue jusqu'à la dernière piste du dernier disque dans le changeur CD.

- Si se colocan 10 CD en el cambiador de CD, la reproducción continua puede ser iniciada apretando cualquier botón CD CONTROL (DISC 1 a DISC 10). La reproducción comienza en la pista designada y continúa hasta que termina cuando se alcanza la última pista del CD colocado.

Botón DISC CONTROL

- Selección directa de disco. Presione el botón (DISC 1 a DISC 10) de CD CONTROL correspondiente al No. del CD deseado.

Ejemplo: Para designar el disco 2



La unidad reproduce en secuencia las pistas del CD designado.

Nota:

- Cuando aparece "PROGRAM" en la pantalla, no se efectúa la operación de selección directa, el CD no es reproducido.

Botón TRACK

- Selección directa de pista. Presione el botón CD CONTROL (DISC 1 a DISC 10), después de presionar el botón TRACK.

Ejemplo: Para seleccionar la 5ª pista del disco 2



- 1 Presione el botón CD CONTROL No. 2.
- 2 Aparece indicado el número de pista.
- 3 Presione el botón CD CONTROL No. 5.

- Para seleccionar las pistas del número 1 al 10, presione el botón CD CONTROL (DISC 1 a DISC 10), correspondiente al número de pista.
- Para seleccionar el número de pista 11 o grand, apriete el botón +10 el número de veces necesarias. Después de presionar el botón CD CONTROL (Ejemplo: Para seleccionar la pista 20, presione el botón +10 una vez y después el botón DISC 10).

Botón +10:

Cada vez que presione este botón, el número aumenta en 10 unidades. Primero, presione este botón para ajustar el dígito número 10, después presione el botón CD CONTROL (DISC 1 a DISC 10) para ingresar el 1er dígito.

- Si 10 discos son cargados en el cambiador de CD, la lectura continua puede ser iniciada apretando cualquier botón CD CONTROL (DISC 1 a DISC 10). La reproducción comienza en la pista designada y continúa hasta que termina cuando se alcanza la última pista del último CD colocado.

Touche DISC CONTROL

- Sélection directe de disque. Appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) correspondant au No. du disque voulu.

Exemple: Pour désigner le disque 2



Les pistes sur le disque désigné sont lues en séquence.

Remarque:

- Quand "PROGRAM" est montré dans l'écran, pendant la sélection directe de disque, le disque ne peut pas être lu.

Touche TRACK

- Sélection directe de piste. Appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) après une pression sur la touche TRACK.

Exemple: Pour désigner la 5ème piste du disque 2



- 1 Appuyez sur la touche CD CONTROL No. 2.
- 2 Le numéro de piste est affiché.
- 3 Appuyez sur la touche TRACK.

- Pour désigner des numéros de piste de 1 à 10, appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) correspondant au numéro de piste.
- Pour désigner le numéro de piste 11 ou plus grand, appuyez sur la touche +10 le nombre de fois nécessaires. Après avoir appuyé sur la touche CD CONTROL (Ejemplo: Para seleccionar la pista 20, presione el botón +10, puis sur la touche DISC 10).

Touche +10:

Chaque fois que cette touche est pressée, le numéro augmente de 10. Appuyez d'abord sur cette touche pour régler le chiffre des dizaines, puis appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) pour régler le chiffre des unités.

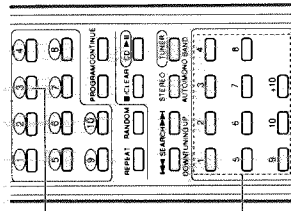
Direct access play (using the remote control unit)

Example 1: To designate Disc 1



- Designate the required CD using the CD CONTROL buttons (DISC 1 to DISC 10).
- CD play starts.

Example 2: To designate the 3rd track of Disc 3



- Designate the required CD using the CD CONTROL buttons (DISC 1 to DISC 10).
- The track number is displayed and the required track number is selected using the track button.
- CD play starts.

- To designate track numbers 1 to 10, press the track number button corresponding to the track number.
- To designate track number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 20th track, press the +10 button once, then press track number button 10.)
- +10 button: Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

Repeat play (Using the remote control unit)

Press the REPEAT button before or during play. It is possible to perform repeat play of a single track, or all tracks on one CD, or all tracks on all CDs in the CD changer.

Each time the REPEAT button is pressed, the mode will change in the order from a single track (≡), to all tracks (≡ ALL), to clear mode.



Single track
Una sola pista
Une seule piste

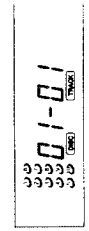
≡ ALL
All tracks
Todas las pistas
Toutes les pistes

Repeat playback is released.
Desactivación de la repetición de reproducción.
La lecture répétée est relâchée.

Go to off.
Se apaga
S'éteint.

Lecture à accès direct (en utilisant la télécommande)

Exemple 1: Pour spécifier le disque 1



- Spécifier le disque voulu en utilisant la touche CD CONTROL (DISC 1 à DISC 10).
- La lecture CD commence.

Exemple 2: Pour spécifier la 3ème piste du disque 3



- Spécifier le disque voulu en utilisant les touches CD CONTROL (DISC 1 à DISC 10).
- Se visualiser les numéros de piste.
- La piste voulue sélectionnée en utilisant la touche de piste.
- La lecture CD commence.

- Pour désigner les numéros de pistes 1 à 10, appuyer sur la touche de numéro de piste correspondant au numéro de piste.
- Pour désigner le numéro de piste 11 ou supérieur, appuyer le bouton +10 le nombre de fois nécessaire pour les dizaines. Puis, appuyer sur la touche de numéro de piste. (Exemple: Pour désigner le numéro 20, appuyer une fois sur la touche +10 puis appuyer sur la touche de numéro de piste 10.)
- Touche +10: Chaque pression sur cette touche, le numéro augmente de 10. Presser d'abord cette touche pour le chiffre des dizaines puis presser la touche de numéro de piste pour le chiffre des unités.

Lecture répétée (En utilisant la télécommande)

Appuyer sur la touche REPEAT avant ou pendant la lecture. Une seule piste ou toutes les pistes sur un CD, ou toutes les pistes sur tous les disques dans le changeur CD peuvent être répétées.

A chaque pression sur la touche REPEAT, le mode sera changé d'une seule piste (≡) à toutes les pistes (≡ ALL) à mode d'effacement dans cet ordre.

Go to off.
Se apaga
S'éteint.

Repeat playback is released.
Desactivación de la repetición de reproducción.
La lecture répétée est relâchée.

- Repetition of a single track (≡)

The single track or the specified track will be repeated repeatedly.

- Repetition of all tracks (≡ ALL)

When the CONTINUE button is pressed in the "≡ ALL" mode, CD play starts from the initial or specified track, then all tracks on all CDs will be played repeatedly.

Reproduction aléatoire (utilisant la unité de control remoto)

Presione el botón RANDOM antes o durante la reproducción. Es posible ejecutar la reproducción aleatoria de uno o de todos los CDs.

- Un disco aleatorio (RANDOM)

Presione el botón RANDOM para reproducir aleatoriamente las pistas del CD colocado o de uno especificado. Excepto cuando el modo de reproducción continua está activado.

- Todos los discos aleatoriamente (ALL DISC, CONTINUE, RANDOM)

Presione el botón RANDOM en el modo de reproducción continua para seleccionar aleatoriamente y reproducir las pistas de todos los CDs en el cambiador.

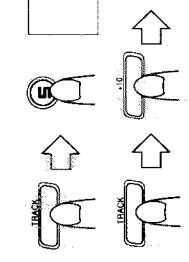
Nota: Si una pista se reproduce varias veces durante la reproducción aleatoria, no es una falla.

Reproducción programada

Es posible programar un máximo de 20 pistas para reproducirlas en cualquier orden deseado, de un CD o de todos los CDs en el cambiador.

Exemplo: (CD conteniendo más de 12 pistas)

Exemplo 1: Programación de pistas del disco 3 (pistas 2, 5, y 12)



CD number
Número de CD
Número de disque

Track number
Número de pista
Número de piste

- Repetition of a single track (≡)

The single track or the specified track will be repeated repeatedly.

- Repetition of all tracks (≡ ALL)

When the CONTINUE button is pressed in the "≡ ALL" mode, CD play starts from the initial or specified track, then all tracks on all CDs will be played repeatedly.

Lecture aléatoire (En utilisant la télécommande)

Appuyez sur la touche RANDOM avant ou pendant la lecture. Il est possible d'effectuer la lecture aléatoire à partir d'un disque ou de tous les disques.

- Lecture aléatoire sur un disque (RANDOM)

Appuyez sur la touche RANDOM pour lire de façon aléatoire des pistes sur le disque courant ou spécifié, sauf en mode continu.

- Lecture aléatoire sur tous les disques (ALL DISC, CONTINUE, RANDOM)

Appuyez sur la touche RANDOM en mode de lecture continue pour sélectionner et lire de façon aléatoire des pistes à partir de tous les disques dans le changeur CD.

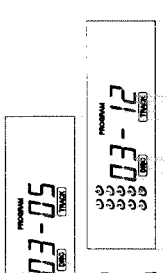
Remarque: Ce n'est pas un mauvais fonctionnement si une même piste se joue plusieurs fois pendant la lecture aléatoire.

Lecture programmée

Jusqu'à 20 pistes peuvent être programmées pour être lues dans l'ordre voulu à partir d'un disque ou de tous les disques dans le changeur CD.

Exemple: (Disque contenant plus de 12 pistes)

Exemple 1: Pour programmer des pistes du disque 3 (pistes 2, 5, et 12)



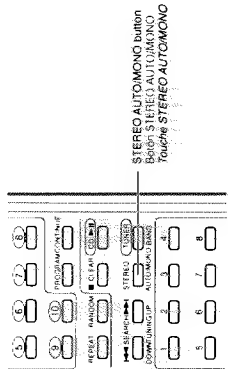
CD number
Número de CD
Número de disque

Track number
Número de pista
Número de piste

- Lorsque la Platine B s'arrête, le mode de pause de la Platine A sera relâché et elle commencera la lecture. Lorsque la Platine A s'arrête automatiquement, la lecture avec relais sera relâchée.

RECEPTION RADIO

Procéder dans l'ordre indiqué



- 1 Appuyer sur la touche TUNER/BAND.
 - L'alimentation est mise sur marche et la gamme et la fréquence radio seront montrées sur l'affichage.
 - Lorsque l'alimentation sur piles est utilisée, mettre d'abord sur marche la touche POWER, puis effectuer les opérations.
- 2 Sélectionner la gamme voulue.
- 3 Syntoniser la station voulue.
- 4 Régler.

Touche STEREO AUTO/MONO (en utilisant la télécommande)

Mode automatique:
Régler sur cette position pour écouter ou enregistrer une émission FM stéréo. L'indicateur STEREO s'allume quand une émission FM stéréo est reçue.

MONO:
Régler sur cette position si la réception FM stéréo contient du bruit.
Si une autre station est syntonisée en mode MONO, l'appareil passe automatiquement en mode Auto.

Syntonisation par recherche

Appuyer sur la touche UP ou DOWN pendant plus d'une seconde; l'appareil passe en mode de recherche pour se syntoniser automatiquement sur la station la plus proche, ainsi l'émission peut être entendue.

Syntonisation manuelle

A chaque pression sur la touche UP ou DOWN, la fréquence change dans la gamme de fréquence courante. La syntonisation est par pas de 100 kHz en FM et 10 kHz en AM.

to higher frequencies
augmenter la fréquence
to lower frequencies
diminuer la fréquence

Notes:

- When seek tuning to the required station is not possible because the broadcast signal is too weak, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY or another mode (TAPE or CD) is selected, the power will be stored in memory.
- When the power is stored in memory, the TUNER/BAND button is pressed, the same station will be tuned to.

Auto preset tuning

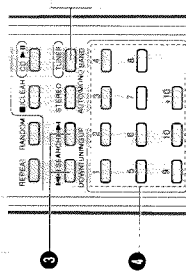
This function scans the current band, detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the TUNER/BAND button for more than 2 seconds. The frequencies of stations broadcasting signals can be stored in memory automatically. (The order of decreasing frequency. (15 stations in each band))

Presetting stations (using the remote control unit)

15 stations in each band can be preset as follows:

- Example: (Presetting an FM station broadcasting on 103.5 MHz to preset button "15")



- Press the TUNER/BAND button.
- Select the FM band using the TUNER/BAND button.
- To the required station.
- Press preset button "10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been stored.)
- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the other band.

- To change preset stations**
Perform step 1 above after tuning to the required station.

Notes:

- The previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency in memory.
- When listening to an AM broadcast, noise may be heard if the remote control unit is used.

Notes:

- When the search of the station of the station desired is not possible, press the signal trap table of the emission, cause the touch UP or DOWN momentarily for effecting the synchronization manually.
- When the power is set to STANDBY or another mode (TAPE or CD) is selected, the power will be stored in memory.
- When the power is stored in memory, the TUNER/BAND button is pressed, the same station will be tuned to.

Intonización programada automática

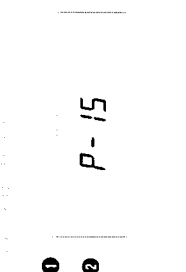
Esta función busca la banda actual, detectando frecuencias usadas para señales de radiodifusión y almacena automáticamente en memoria las primeras 15 frecuencias.

- Presione el botón TUNER/BAND durante más de 2 segundos. Las frecuencias de las emisoras emitiendo señales de radiodifusión pueden ser almacenadas en memoria automáticamente. (El orden de decreciente frecuencia. (15 estaciones en cada banda))

Presintonización de estaciones (utilizando la unidad de control remoto)

Es posible presintonizar 15 estaciones en cada banda de la siguiente forma:

- Ejemplo: (Presintonización de la radiodifusión de una estación de FM en 103.5 MHz en el botón "15" de presintonización)



- Presione el botón TUNER/BAND.
- Seleccione la banda de FM utilizando el botón TUNER/BAND.
- Seleccione la estación deseada.
- Presione el botón TUNER/BAND durante más de 2 segundos. (Cuando el "15" parpadea en la indicación de estación presintonizada, esta ha sido registrada.)
- Repita el procedimiento de arriba para cada una de las otras estaciones, utilizando un botón de presintonización diferente para cada estación.
- Repita el procedimiento de arriba para la otra banda.

- Cambio de estaciones presintonizadas**
Ejecute el paso 1 después de sintonizar la estación deseada.

Notes:

- Cuando se almacena una nueva estación, se borra la estación almacenada anteriormente porque la frecuencia de la nueva estación reemplaza la frecuencia de la anterior en memoria.
- Cuando escuche una radiodifusión de AM, es posible que escuche interferencia si utiliza el mando a distancia.

Remarques:

- Lorsque la sintonisation par recherche de la station voulue n'est pas possible à cause d'un signal trop faible de l'émission, pressez la touche UP ou DOWN momentanément pour effectuer la sintonisation manuelle.
- Quand l'alimentation est réglée sur STANDBY ou qu'un autre mode (TAPE ou CD) est sélectionné, la dernière fréquence sintonisée sera stockée en mémoire.
- Quand la fréquence sintonisée sera stockée en mémoire, et que la touche TUNER/BAND est pressée, la même station sera entendue.

Sintonisation automatique des pré-réglages

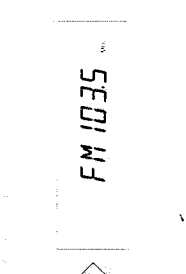
Cette fonction batise la gamme courante, détectant les fréquences utilisées par les signaux d'émission et met automatiquement les 15 premières fréquences en mémoire.

- Appuyez sur la touche AUTO PRESET pendant plus de 2 secondes. Les fréquences des stations émettant des signaux peuvent être enregistrées automatiquement dans l'ordre de fréquences décroissantes. (15 stations dans chaque gamme.)

Pré-réglage des stations (en utilisant la télécommande)

15 stations dans chaque gamme peuvent être pré-réglées comme suit.

- Exemple: (Pour pré-régler une émission d'une station FM sur 103.5 MHz sur la touche de pré-réglage "15")



- Appuyez sur la touche TUNER/BAND.
- Sélectionnez la gamme FM avec la touche TUNER/BAND.
- Sélectionnez la station voulue.
- Pressez la touche de pré-réglage "10", puis "5" pendant plus de 2 secondes. (Quand le "15" clignote sur l'affichage de station pré-réglée, la station a été pré-réglée.)
- Répétez la procédure ci-dessus pour chacune des autres stations, en utilisant une touche de pré-réglage différente à chaque fois.
- Répétez la procédure ci-dessus pour l'autre gamme.

- Pour changer les stations pré-réglées**
Effectuez l'étape 1 ci-dessus après avoir sintonisé la station voulue.

Remarques:

- La station mise en mémoire précédemment est effacée quand une nouvelle station est introduite, car la fréquence de la nouvelle station remplace la fréquence de la station en mémoire.
- En écoutant une émission AM, des parasites peuvent être entendus si la télécommande est utilisée.

Preset tuning

- The stations must be preset before this operation can be performed.

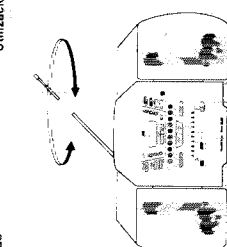
(Using the main unit)

- Press the TUNER/BAND button.
- Select the band using the TUNER/BAND button.
- Press the PRESET TUNING button to select the required preset station.

(Using the remote control unit)

- Press the TUNER/BAND button.
- Select the band using the TUNER/BAND button.
- Press the required preset station button (No. 1 - No. 10 and "10").
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas



Note:
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM reception.

Presintonización

- Las estaciones deben ser presintonizadas antes de que se pueda efectuar esta operación.

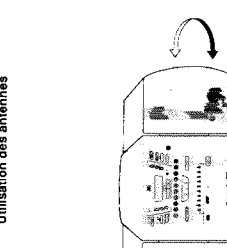
(Utilizando la unidad principal)

- Presione el botón TUNER/BAND.
- Seleccione la banda utilizando el botón TUNER/BAND.
- Presione el botón PRESET TUNING para seleccionar la estación presintonizada deseada.

(Utilizando la unidad de control remoto)

- Presione el botón TUNER/BAND.
- Seleccione la banda utilizando el botón TUNER/BAND.
- Presione los botones (No. 1 - No. 10 y "10") de la estación presintonizada deseada.
- El número de la estación presintonizada y la frecuencia correspondiente al botón presionado serán mostrados.

Utilización de antenas



Note:
El núcleo incorporado de la antena de ferrita puede captar interferencia de receptores de televisión de la vecindad y disturbando la recepción de AM.

Sintonisation des pré-réglages

- Les stations doivent être pré-réglées avant de procéder à cette opération.

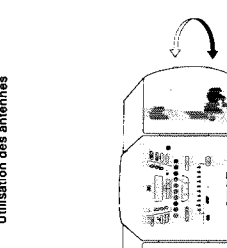
(En utilisant l'appareil principal)

- Appuyez sur la touche TUNER/BAND.
- Sélectionnez la gamme en utilisant la touche TUNER/BAND.
- Appuyez sur la touche PRESET TUNING pour sélectionner la station pré-réglée voulue.

(En utilisant la télécommande)

- Appuyez sur la touche TUNER/BAND.
- Sélectionnez la gamme en utilisant la touche TUNER/BAND.
- Appuyez sur les touches de station pré-réglée voulue (No. 1 à No. 10 et "10").
- Le numéro de la station pré-réglée et la fréquence correspondante à la touche pressée sont indiqués.

Utilisation des antennes



Remarque:
L'antenne à noyau de ferrite incorporée peut capter des interférences provenant d'un téléviseur dans le voisinage et provoquer par conséquent une mauvaise réception des émissions AM.

RECORDING

GRABACION

ENREGISTREMENT

- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjustment is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.
- When making an important recording, use household AC as much as possible for power supply.

Note:
This unit has recording/playback characteristics suitable for normal tapes. Normal tapes have different characteristics from CrO₂ and metal tapes.

Synchronized recording with the CD player system

- In this system, the CD player starts play when the cassette deck enters the recording mode.

- Enregistrement, le circuit ALC (contrôle de niveau automatique) optimise automatiquement le niveau d'enregistrement, ainsi l'ajustement du niveau d'enregistrement n'est pas nécessaire.
- Vérifier que la languette de sécurité de la cassette n'est pas brisée.
- Quand vous faites un enregistrement important, utiliser la source d'alimentation la mesure du possible pour l'alimentation.

Remarque:
Cet appareil a des caractéristiques de gravation/reproduction adaptées pour les bandes normales. Les bandes normales ont des caractéristiques différentes des bandes CrO₂ et métal.

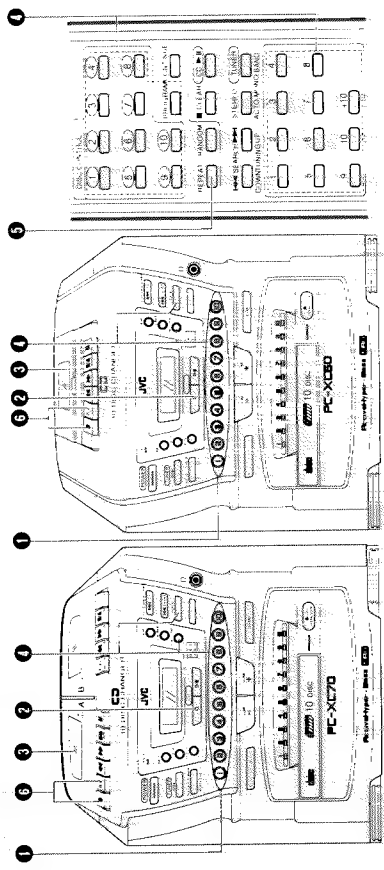
Enregistrement synchronisé avec le lecteur CD

- Dans ce système, le lecteur CD commence la lecture quand la platine à cassette passe en mode d'enregistrement.

Procédure dans l'ordre indiqué

Opère en el orden mostrado

Operate in the order shown



- 1** Press the CD CONTROL button corresponding to the CD to be recorded.
- 2** Press the **II** button to set to the stop mode.
- 3** Load a cassette with side A facing up. (Wind past the tape leader before starting recording.)
- 4** When programmed play is required, program the required tracks. (See page 24.)
- 5** Select tracks with a total playing time which does not exceed the tape length (refer to the liner notes).
- 6** When recording a CD in repeat play mode, set as required.
- 7** Press the **II** REC button and the **▶** PLAY button. Synchronized recording will start. (The recording indicator lights up.)

- 8** Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- 9** When the tape reaches the end first, the CD player stops automatically. When recording in this case, press the **▶** STOP/EJECT button to stop the tape.
- 10** Before CD synchro recording of CD continuous play, press the CONTINUE button. (See page 24.)

- Notes:**
- During CD synchro recording, the **▶** PLAY button and the **▶** STOP/EJECT buttons do not let you do not perform operations on Deck B, because if the tape in Deck B is played back, that sound would be recorded. (PC-XC70 only)

- 1** Appuyez sur la touche CD CONTROL correspondant au CD que vous allez graver.
- 2** Appuyez sur la touche **II** pour passer en mode d'arrêt.
- 3** Chargez une cassette avec sa face A tournée vers le haut. (Frapper l'ampère de la bande avant de lancer l'enregistrement.)
- 4** Lorsque la lecture programmée est requise, programmez les pistes requises. (Voir page 24.)
- 5** Sélectionnez les pistes avec une durée de lecture totale qui ne dépasse pas la longueur de la bande. (Se référer aux remarques accompagnant la cassette.)
- 6** Réglez comme requis pour enregistrer un disque autonome en mode de lecture répétée.
- 7** Appuyez sur la touche **II** REC et sur la touche **▶** PLAY. L'enregistrement synchronisé commencera. (L'indicateur d'enregistrement s'allume.)

- 8** Des sections non enregistrées d'environ 4 secondes seront automatiquement laissées entre les morceaux.
- 9** Si la bande finit en premier, le lecteur CD s'arrête automatiquement. Si le lecteur CD s'arrête le premier, la bande continue à défiler. Dans ce cas, appuyez sur la touche **▶** STOP/EJECT pour arrêter la bande.
- 10** Avant l'enregistrement synchro CD de lecture continue CD, appuyez sur la touche CONTINUE. (Voir page 24.)

- Remarques:**
- Pendant l'enregistrement synchro CD, les boutons **▶** PLAY et **▶** STOP/EJECT ne fonctionnent pas.
 - Pendant l'opération synchro CD, ne pas effectuer d'opérations sur la platine B, car si la bande dans la platine B est lue, ce son pourrait être enregistré. (PC-XC70 uniquement)

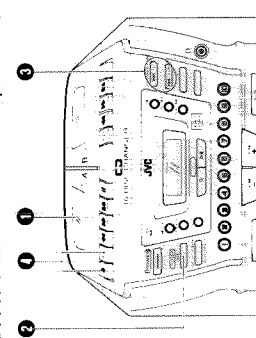
- Notes:**
- Durante la gravation synchronisée de CD les boutons **▶** PLAY et **▶** STOP/EJECT ne fonctionnent pas.
 - Durante la gravation synchronisée de CD, ne pas effectuer d'opérations sur la platine B, car si la bande dans la platine B est lue, ce son pourrait être enregistré. (PC-XC70 uniquement)

When non-recorded section between tunes is not required...

- Perform the following after finishing the previous operation **1** to **5**.
- Press the **II** button of the CD player twice. The CD player enters the pause mode.
 - Press the **▶** REC and **▶** PLAY buttons. Now, the CD player starts play simultaneously.

Notes:

- Depending on the CD used, non-recorded sections of different lengths may be left between tunes.
- When CD synchro recording is performed on two CDs, there will be a little blank space while the CDs change.

Recording from the radio
Operate in the order shown

- 1** Load a cassette.
- 2** Press the TUNER/BAND button.
- 3** Tune to the required station.
- 4** Press the **II** REC button with the **▶** PLAY button.
- 5** To stop recording temporarily, press the **II** PAUSE button. To resume recording, press the **▶** PLAY button again.

- 6** During recording, do not perform operations on Deck B, because if the tape in Deck B is played back, that sound would also be recorded. (PC-XC70 only)
- 7** Avant l'enregistrement synchro CD de lecture continue CD, appuyez sur la touche CONTINUE. (Voir page 24.)

Erasing

- A recorded tape can be erased by recording new material over the previous material.

To erase a tape without making a new recording...

- Press the **▶** PLAY button of the deck to set to the TAPE mode and press the **II** REC and **▶** PLAY buttons together after pressing the **▶** STOP/EJECT button.

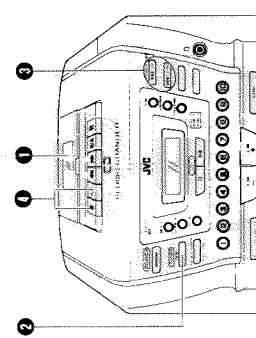
It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Quando no es necesario dejar espacios sin grabar entre músicas...

- Efectúe lo siguiente después de terminar la operación anterior **1** a **5**.
- Presione dos veces el botón **II** del reproductor de CD. El reproductor ingresa en el modo de pausa.
 - Presione los botones **▶** REC y **▶** PLAY simultáneamente. El reproductor de CD inicia la reproducción simultáneamente.

Notas:

- Dependiendo del CD utilizado, es posible dejar entre músicas secciones sin grabar de diferentes longitudes.
- Si el grabado en sincronización se realiza en dos CDs, habrá un espacio en blanco mientras los CDs cambian.

Grabación desde la radio
Opere en el orden mostrado

- 1** Coloque un cassette.
- 2** Presione el botón TUNER/BAND.
- 3** Sintonice la estación deseada.
- 4** Presione el botón **II** REC conjuntamente con el botón **▶** PLAY.
- 5** Para parar la grabación temporalmente, presione el botón **II** PAUSE. Para continuar la grabación, presione otra vez el botón **▶** PLAY.

- 6** Durante la grabación, no realice las operaciones en la platina B ya que si la cinta en la misma está siendo reproducida, el sonido también será grabado. (PC-XC70 exclusivamente)

Borrado

- La cinta grabada puede ser borrada grabando otro material sobre el material anterior.

Para borrar la cinta sin efectuar una nueva grabación...

- Presione el botón **▶** PLAY de la platina para activar el modo TAPE y presione conjuntamente los botones **▶** REC y **▶** PLAY después de presionar el botón **▶** STOP/EJECT.

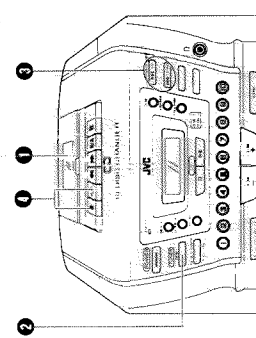
Puede ser ilegal el grabar o reproducir material con derechos de autor sin el consentimiento del dueño de los mismos.

Quando des sections non enregistrées entre les morceaux ne sont pas nécessaires...

- Faire ce qui suit après avoir fini l'opération précédente **1** à **5**.
- Appuyer deux fois sur la touche **II** du lecteur de CD. Le lecteur de CD passe en mode de pause.
 - Appuyer sur les touches **▶** REC et **▶** PLAY simultanément. Le lecteur de CD commence alors simultanément la lecture.

Remarques:

- En fonction du disque utilisé, des sections non enregistrées de différentes longueurs peuvent être laissées entre les morceaux.
- Si l'enregistrement synchro CD est effectué en utilisant plus de deux disques, il y aura un petit espace vierge alors que les disques changent.

Enregistrement à partir de la radio
Procéder dans l'ordre indiqué

- 1** Charger une cassette.
- 2** Appuyer sur la touche TUNER/BAND.
- 3** Sintoniser la station voulue.
- 4** Appuyer sur la touche **II** REC avec la touche **▶** PLAY.
- 5** Pour arrêter momentanément l'enregistrement, appuyer sur la touche **II** PAUSE. Pour reprendre l'enregistrement, appuyer à nouveau sur la touche **▶** PLAY.

- 6** Pendant l'enregistrement, ne pas effectuer d'opérations sur la Platine B, car si la bande dans la Platine B est lue, ce son pourrait également être enregistré. (PC-XC70 uniquement)

Effacement

- Une bande enregistrée peut être effacée en enregistrant du nouveau matériel sur le précédent.

Pour effacer une bande sans faire de nouvel enregistrement...

- Appuyer sur la touche **▶** PLAY de la platine pour passer en mode TAPE, appuyer conjuntamente los botones **▶** REC y **▶** PLAY después de presionar la touche **▶** STOP/EJECT.

Il peut être illégal d'enregistrer ou de reproduire des œuvres protégées par le droit de propriété intellectuelle sans le consentement du détenteur des droits d'auteur.

TAPE DUBBING (SYNCHRO START DUBBING) (PC-XC70 only)



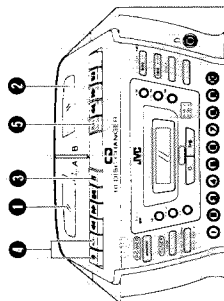
Normal-speed dubbing from Deck B to Deck A can be performed.

Operate in the order shown

COPIA DE CINTA (COPIA CON INICIO SINCRONIZADO) (PC-XC70 exclusivamente)

Es posible copiar de la platina B a la platina A a velocidad normal.

Operar en el orden mostrado



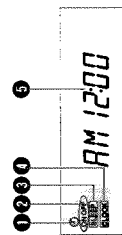
- 1 Load a cassette for recording. (Refer to the note on page 30.)
- 2 Load a recorded cassette.
 - Lightly press the **▶** PLAY button to set to the PAUSE mode. (The button should not be pushed too hard.)
- 3 Press the **II** PAUSE button.
- 4 Press the **II** REC and **▶** PLAY buttons together. (Record-pause mode.)
- 5 Press the **▶** PLAY button. (Synchronized dubbing will start.)

Note:

- With Deck A in the record-pause mode, the **II** PAUSE button is released when Deck B enters the stop mode.

CLOCK ADJUSTMENT

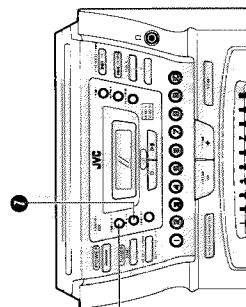
Names of parts in the clock/timer section, and their functions:



- 1 Timer mode indicator
- 2 Timer indicator (ON/OFF)
- 3 SLEEP indicator
- 4 Clock indicator
- 5 Time display
- 6 TIMER/SET button
- 7 CLOCK/SET button
- 8 SLEEP button

AJUSTE DEL RELOJ

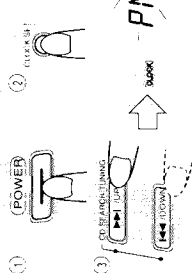
Nombre de las partes de la sección del reloj/timer y sus funciones:



- 1 Indicador del modo de temporizador
- 2 Indicador de activación/desactivación (ON/OFF) del temporizador
- 3 Indicador SLEEP
- 4 Indicador CLOCK
- 5 Indicación de hora
- 6 Botón TIMER/SET
- 7 Botón CLOCK/SET
- 8 Botón de temporizador de desconexión (SLEEP)

Setting the current time (when this unit is used for the first time)

(Example: To set the clock to PM 1:15.)



- 1 Set the POWER button to ON. Press the CLOCK/SET button for 2 seconds or more. "AM 12:00" will blink in the display.
- 2 Set to PM 1:15 by pressing the **▶** and **◀** buttons. (When the button is kept pressed, the minute/hour indication changes continuously.)
- 3 Press the CLOCK/SET button; the time will light in the display.

- Each time the hour's digits change from 11 to PM, the display alternates between AM and PM. At midnight the indicator changes to 12:00 and 12 noon is indicated as "PM 12:00".

- To set to the nearest second. Press the CLOCK/SET button when you hear the time signal from a TV or radio.

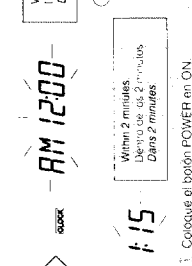
- To confirm the current time (when the power is ON). Press the CLOCK/SET button. When the button is pressed again, the display shows the previously engaged mode.

Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- When the power cord is plugged in again after being disconnected, the clock will be restored after 12 hours. The "CLOCK" indicator will blink in the display. Set the current time again.

Ajuste de la hora actual (cuando se usa la unidad por primera vez)

(Ejemplo: Para ajustar el reloj a las 1:15 PM.)



- 1 Coloque el botón POWER en ON. Presione el botón CLOCK/SET durante 2 segundos o más. "AM 12:00" parpadeará en el visor.
- 2 Ajuste a la 1:15 PM presionando los botones **▶** y **◀**. (Si la tecla es mantenida presionada, la indicación de los minutos/hora cambia continuamente.)
- 3 Presione el botón CLOCK/SET; la hora se iluminará en el visor.

- Cada vez que los dígitos de la hora cambian de 11 a 12, la hora alterna entre AM y PM. Las 12 de la noche se indican como "AM 12:00" y las 12 del día se indican como "PM 12:00".

- Para fijar los segundos en forma más exacta. Presione el botón CLOCK/SET al escuchar la señal horaria de la televisión o la radio.

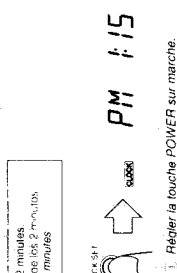
- Confirmación de la hora actual (cuando la alimentación está conectada). Presione el botón CLOCK/SET. Al presionarlo otra vez, la indicación muestra el modo que estaba activado antes.

Notes:

- Antes de efectuar la grabación o reproducción por temporizador, es necesario ajustar la hora actual.
- Cuando se conecta el cordón de alimentación después de haberlo desconectado o cuando vuelve la energía después de un corte de la misma, "CLOCK" parpadeará en el visor. Ajuste otra vez la hora actual.

Reglaje de l'heure actuelle (quand cet appareil est utilisé pour la première fois)

(Exemple: Pour régler l'horloge à PM 1:15.)



- 1 Régler la touche POWER sur marche. Appuyer sur la touche CLOCK/SET pendant 2 secondes ou plus. "AM 12:00" clignotera dans l'affichage.
- 2 Régler sur PM 1:15 en pressant les touches **▶** et **◀**. (Si la touche est maintenue pressée, l'indication des minutes/heures évolue en continu.)
- 3 Appuyer sur la touche CLOCK/SET; l'heure sera allumée dans l'affichage.

- Chaque fois que les chiffres des heures changent de 11 à 12, l'horloge alterne entre AM et PM. Minuit est indiquée sous la forme "AM 12:00" et midi sous la forme "PM 12:00".

- Pour régler à la seconde près. Appuyer sur la touche CLOCK/SET au moment d'un signal horaire de la télévision ou de la radio.

- Pour confirmer l'heure courante (quand l'alimentation est mise en marche). Appuyer sur la touche CLOCK/SET. Quand la touche est à nouveau pressée, l'affichage montre le mode engagé précédemment.

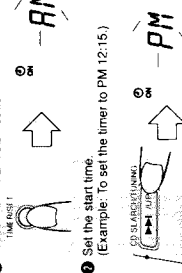
Remarques:

- Avant d'effectuer l'enregistrement ou la lecture par minuterie, il est nécessaire de régler l'heure actuelle.
- Si le cordon d'alimentation est rebranché après avoir été débranché, ou si le courant est rétabli après une panne, "CLOCK" clignotera dans l'affichage. Régler à nouveau l'heure courante.

TIMER OPERATIONS

Setting the timer

- The current time must be set before the timer can be used.
- Press the TIMER/SET button.



Set the start time

(Example: To set the timer to PM 12:15.)



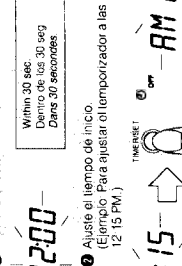
Notes:

- Press to set the start time.
- Press to set the timer off time.
- Press to set the timer on time.
- Press to set the timer on time.

OPERACIONES POR TEMPORIZADOR

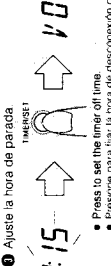
Ajuste del temporizador

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Presione el botón TIMER/SET.



Ajuste el tiempo de inicio

(Ejemplo: Para ajustar el temporizador a las 12:15 PM.)



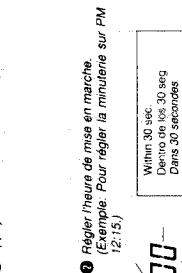
Notes:

- Press to set the start time.
- Press to set the timer off time.
- Press to set the timer on time.
- Press to set the timer on time.

FONCTIONNEMENT DE LA MINUTERIE

Réglage de la minuterie

- L'heure courante doit d'abord être réglée pour pouvoir utiliser la minuterie.
- Appuyer sur la touche TIMER/SET.



Régler l'heure de mise en marche

(Exemple: Pour régler la minuterie sur PM 12:15.)



Notes:

- Press to set the start time.
- Press to set the timer off time.
- Press to set the timer on time.
- Press to set the timer on time.

- L'enregistrement par minuterie commencera à l'heure de mise en marche quelle que soit l'heure d'arrêt que vous avez réglée. Si la durée préétablie de la minuterie est plus longue que la durée de bande restante, l'enregistrement s'arrêtera à la fin de la bande et le synthétiseur restera en marche jusqu'à l'heure d'arrêt préétablie.
- Pour annuler le fonctionnement de la minuterie, appuyez sur la touche **TIMER/SET** pour que l'indicateur de mode de minuterie (C) s'éteigne. Si vous faites ainsi, l'enregistrement par minuterie ne commencera pas à l'heure de mise en marche de la minuterie.

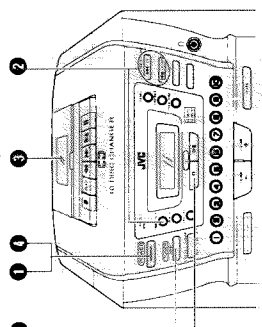
Remarques:
Une fois la minuterie réglée, les heures de mise en marche et l'arrêt, etc., sont mises en mémoire. Quand l'enregistrement ou la lecture de la cassette est terminée, les heures de la minuterie doivent être réglées à nouveau.

- Après avoir réglé les heures de mise en marche et l'arrêt de la minuterie, vérifiez que le synthétiseur est synchronisé sur la fréquence voulue.

Lecture par minuterie

- La lecture par minuterie de bandes, d'émissions et de CD est possible.

Fonctionnement



- 1 Régler la touche **POWER** sur marche.
- 2 Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 34.)
- 3 Sélectionner la source de son.

- La grabación por temporizador se iniciará a la hora de inicio preajustada y parará al final de la grabación. Si la duración de la grabación es más larga que la duración de la cinta, la grabación se detendrá al fin de la cinta y el sintetizador permanecerá activado hasta la hora de parada preajustada.
- Cancelación de la operación por temporizador: Presione el botón **TIMER/SET** para apagar el indicador (C) de modo de temporizador. Si usted hace esto, la grabación por temporizador no se iniciará a la hora de activación del temporizador.

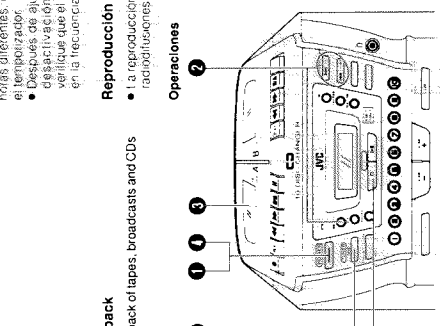
Notes:
Una vez ajustado el temporizador, la hora de activación y desactivación, etc., son registradas en memoria. Cuando se desea efectuar una grabación o reproducción por temporizador a una hora determinada, es necesario ajustar otra vez el temporizador.

- Después de ajustar la hora de activación y desactivación, etc., del temporizador, verifique que el sintetizador esté sintonizado en la frecuencia deseada.

Reproducción por temporizador

- La reproducción por temporizador de cintas, grabaciones, y CD es posible.

Operaciones



- 1 Coloque el botón **POWER** en ON.
- 2 Ajuste el temporizador. (Relácese a "Ajuste del temporizador" en la página 34.)
- 3 Seleccione la fuente de sonido.

- Timer recording will start at the preset start time, and will stop at the end of the tape, no matter what stop time you put in. If the tape's remaining time, the recording will remain on until the preset stop time.
- To cancel timer operation: Press the **TIMER/SET** button so that the timer mode indicator (C) goes out. If you do this, timer recording will not start at the timer start time.

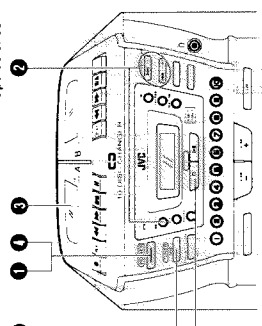
Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again. After setting the timer start and stop times, check that the tuner is tuned to the required frequency.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations

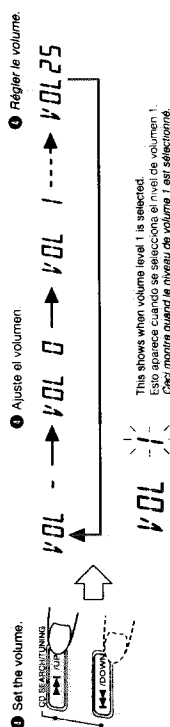


- 1 Set the **POWER** button to ON.
- 2 Set the timer. (Refer to "Setting the timer" on page 34.)
- 3 Select the source sound.

Source sound Fuente de sonido	Timer mode Modo de temporizador	Operations Operaciones
CD play Reproducción de CD	CD	Load a CD and press the 1 button to set the CD mode. Cargue un disco de CD y presione el botón 1 para pasar a modo CD.
Take playback Reproducción de una cinta	TAPE	Load a cassette tape. Cargue una cassette.
Radio broadcast Emisión	TUNER	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency. Presione el botón TUNER/BAND para establecer el modo de sintonizador y sintonice la frecuencia deseada.

- 1 Coloque el botón **POWER** en **STANDBY**. (Presione el botón **PLAY** de la palina para la reproducción de la cinta por temporizador.)
- 2 Coloque el botón **POWER** sur **STANDBY**. (Appuyez sur la touche **PLAY** de la paline pour la lecture par minuterie d'une bande.)

1 Régler le volume.



This shows when volume level 1 is selected.
Ceci montre quand le niveau de volume 1 est sélectionné.

- The unit enters the previously engaged mode and timer setting has been completed. (The D indicator lights.)
- La unidad ingresa en el modo previamente activado y el ajuste del temporizador queda completado. (Se enciende el indicador (D).)
- L'appareil passe dans le mode engagé précédemment et le réglage de la minuterie est terminé. (L'indicateur (D) s'allume.)

- When the volume setting is set to "VOL." (no se especifica el nivel del volumen), el volumen de la reproducción por temporizador permanece al nivel utilizado antes de ajustar el temporizador.
- Si se ajusta el volumen en "VOL." (no se especifica el nivel del volumen), el volumen de la reproducción por temporizador permanece al nivel utilizado antes de ajustar el temporizador.

To confirm the timer setting.

1. Examine the **TIMER/SET** button. When the timer setting has been confirmed, the timer mode indicator (C) will be lit.
2. When the previously engaged mode is displayed, timer setting has been completed.

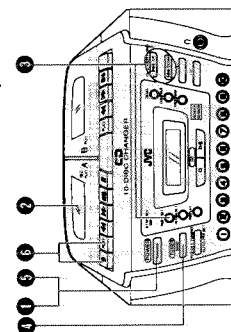
Note:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.

Timer recording of broadcast

- The current time must be set correctly before you set timer recording.
- Make sure that the safety tabs of the cassette have not been broken off.

Operations



- 1 Set the **POWER** button to ON.
- 2 Load a cassette.
- 3 Set the timer. (Refer to "Setting the timer" on page 34.)
- 4 Set the timer about a minute before the broadcast to be recorded is scheduled to start.
- 5 Tune the station to be recorded. (Refer to "Tuning the station" on page 28.)
- 6 Press the **POWER** button to **STANDBY**.
- 7 Press the **REC** and **PLAY** buttons of the deck simultaneously.
- 8 "REC" is shown in the display window.

- 1 Régler la touche **POWER** sur marche.
- 2 Mettre en place une cassette.
- 3 Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 34.)
- 4 Régler la minuterie environ une minute avant l'heure de l'émission à enregistrer. (Se référer à la page 28.)
- 5 Régler la station à enregistrer. (Se référer à la page 28.)
- 6 Appuyer simultanément sur les touches **REC** et **PLAY** de la paline.
- 7 "REC" est indiqué sur la fenêtre d'affichage.

- Se visualiza "REC" en la ventanilla de indicación.

- B. Pour vous endormir en écoutant une émission ou un CD et pour effectuer la lecture par minuterie le lendemain matin**
- 1 Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 34.)
 - 2 Régler sur la source voulue (émission ou CD).

Pour s'endormir	Pour se réveiller
Radio	Radio
Lecture CD	Lecture CD

- Pendant la lecture de bande, l'alimentation sera coupée à la fin de la lecture. Vous pouvez seulement l'opération "Pour s'endormir" ou "Pour se réveiller" est possible.

- 1 Appuyer sur la touche SLEEP pour régler la durée de sommeil.

- B. Para dormir mientras escucha una radiodifusión o un CD y efectuar la reproducción por temporizador la mañana siguiente**

- 1 Ajuste el temporizador. (Reférase a "Ajuste del temporizador" en la página 34.)
- 2 Ajuste la fuente deseada (radiodifusión o CD).

Cuando vaya a dormir	Cuando despierta
Radiodifusión	Radiodifusión
Reproducción de CD	Reproducción de CD

- Al reproducir una cinta, la alimentación se desconecta cuando la cinta termina, por eso la operación es posible solo "Cuando vaya a dormir" o "Cuando despierta".

- 1 Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.

MANTENIMIENTO

La limpieza es importante!

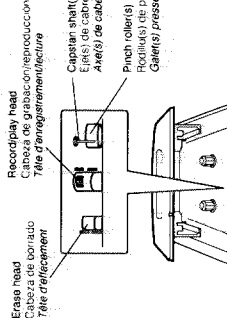
Cuando la cinta está girando, el polvo magnético y el polvo se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando están muy sucios, la reproducción de la grabación se deteriora. El nivel de salida de sonido se reduce.

- Las cintas grabadas no se borran completamente.
- La grabación no se realiza satisfactoriamente. Por lo tanto, usted debe limpiar las cabezas, etc. después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

Limpieza de las cabezas, cabrestante y rodillo de presión

Limpe las cabezas, rodillo de presión y cabrestante. Para una limpieza efectiva, utilice un conjunto de limpieza disponible en cualquier tienda de audio.

Después de la limpieza, asegúrese de que el líquido para la misma se haya secado completamente antes de colocar un cassette.



Precautions:

- 1 Mantenga los manos y los objetos metálicos lejos de la cabeza. Si la cabeza se magnetiza, el ruido aumentará y el sonido se deteriorará. Demagnetice la cabeza cada 20-30 horas. No use cinta de grabación con un efecto de tête disponible en cualquier tienda de audio. (Cuando demagnetice la cabeza, el botón POWER deberá estar colocado en STANDBY.)
- 2 Para limpiarla no utilice ningún otro producto que no sea alcohol. El disolvente y la bencina dañarán el rodillo de presión de goma.

- B. To fall asleep while listening to a broadcast or CD and to perform timer playback the following morning**
- 1 Set the timer. (Refer to "Setting the timer" on page 34.)
 - 2 Set to the required source (broadcast or CD).

When falling asleep	When waking up
Broadcast	Broadcast
CD play	CD play

- During tape playback, the power is switched off when the tape ends, so only "When falling asleep" or "When waking up" operation is possible.

- 1 Press the SLEEP button to set the sleep time.

MANTENANCE

Cleaning is important!

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty, the reproduction of the recording is deteriorated. The output sound level drops.

- The output sound level drops.
- Previously recorded tape is not completely erased.
- Recording is not performed satisfactorily. Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

Cleaning the heads, capstan and pinch roller

Open the cassette holder. Clean the heads, pinch roller and capstan. For effective cleaning, use a cleaning kit available from an audio store. After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.

After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.



Cautions:

- 1 Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the sound will deteriorate. Demagnetize the head every 20-30 hours. Do not use recording tape with a head effect (available in any audio store). (When demagnetizing the head, the POWER button should be set to STANDBY.)
- 2 Do not use anything other than alcohol for cleaning. Thinner and benzene will damage the rubber pinch roller.

- La lectura por minuterie comenzará a la hora de mise en marche de la minuterie et l'alimentation sera coupée à la fin de la lecture de la minuterie (synchroniser le CD).
- L'opération de minuterie pendant le déroulement de la bande, mais sera coupée quand la bande arrive à sa fin. Le réglage de la minuterie reste dans le même mode de minuterie même après la coupure de l'alimentation et la même fonction de minuterie sera répétée à la même heure le jour suivant.

- Pour annuler le fonctionnement de la minuterie, appuyer sur la touche TIMER/SET pour que l'indicateur de mode de minuterie (C) s'éteigne.

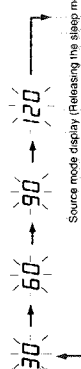
Remarques:

- Quand le réglage de volume est réglé sur "VOL. -" (le niveau de volume n'est pas spécifique), le volume de la lecture par minuterie est au niveau utilisé avant de régler la minuterie.
- Pendant la lecture par minuterie, appuyer sur la touche POWER pour couper l'alimentation de l'appareil.
- Quand l'alimentation est sur marche, il est possible de modifier le son du niveau de volume 0 (zéro) au volume protégé.

Fonctionnement de la minuterie de sommeil (en utilisant la télécommande)

- A. L'utiliser quand vous voulez vous endormir tout en écoutant une bande, une émission ou un CD.

- 1 Régler la source voulue et synchroniser (appuyer sur la touche SLEEP ou bande).
- 2 Appuyer sur la touche SLEEP pour régler la durée de sommeil.



Source mode display (Release the sleep mode)
Visualización del modo de sueño (Cambio del modo de desconexión)

Source mode display (Release the sleep mode)
Visualización del modo de sueño (Cambio del modo de desconexión)
Affichage de mode de source (Relâchement de la minuterie de sommeil)

- La minuterie de sommeil commencera et l'alimentation sera coupée après la durée spécifiée (mode synchroniser et CD).
- L'opération de minuterie pendant le déroulement de la bande, mais sera coupée quand la bande arrive à sa fin.

- Contrôle de la durée de sommeil
Quand la touche SLEEP est pressée, la durée de sommeil restante est affichée. Si elle est pressée à nouveau, une nouvelle durée de sommeil peut être réglée.

- Pour annuler le fonctionnement de la minuterie de sommeil
Appuyer sur la touche POWER pour couper l'alimentation ou appuyer sur la touche SLEEP jusqu'à ce que l'indicateur de minuterie de sommeil disparaisse.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconectará a la hora de finalización de la reproducción por temporizador (sincronizar el CD).
- La operación de minuterie durante el desarrollo de la banda, pero será cortada cuando la operación de la cinta pero se desconectará al fin de la cinta. El ajuste del temporizador permanece igual en el mismo modo de temporizador aun después de desconectar la alimentación y la misma función de temporización se repetirá a la misma hora el día siguiente.

- Cancelación de la operación por temporizador
Presione el botón TIMER/SET para apagar el indicador (C) de modo de temporizador.

Notas:

- Cuando se ajusta el volumen en "VOL. -" (el nivel de volumen no está especificado), el volumen de reproducción por temporizador permanece en el nivel usado antes de ajustar la minuterie.
- Durante la reproducción por temporizador, presione el botón POWER para desconectar la unidad.
- Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

Operación del temporizador de desconexión (utilizando la unidad de control remoto)

- A. Utilice este modo cuando desee dormirse escuchando una cinta, radiodifusión o CD.

- 1 Colocarlo en la fuente o música (radiodifusión) deseada, o en reproducción (CD o cinta).
- 2 Presione el botón SLEEP para ajustar la hora de desconexión.



Source mode display (Release the sleep mode)
Visualización del modo de sueño (Cambio del modo de desconexión)

Source mode display (Release the sleep mode)
Visualización del modo de sueño (Cambio del modo de desconexión)
Affichage de mode de source (Relâchement de la minuterie de sommeil)

- Después de transcurrido el tiempo especificado se activa el temporizador de desconexión y la alimentación se desconecta.
- La operación de minuterie durante el desarrollo de la banda, pero será cortada cuando la operación de la cinta, pero se desconectará cuando la cinta termine.

- Verificación del tiempo para dormir
Cuando presiona el botón SLEEP aparece la indicación del tiempo restante. Si lo presiona otra vez, es posible establecer un nuevo período para dormir.

- Cancelación del temporizador de desconexión
Presione el botón POWER para desconectar la alimentación o presione el botón SLEEP hasta que el indicador del tiempo para dormir desaparezca.

- Timer playback will start at the timer start time and the power will be switched off at the timer end time (synchronise the CD).
- The operation of timer during tape operation but will switch off when the tape ends. The timer setting remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- To cancel timer operation
Press the TIMER/SET button so that the timer mode indicator (C) goes out.

Notes:

- When the volume setting is set to "VOL. -" (volume level is not specified), the timer playback volume is set to the level used before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- When the power is switched on, it is possible to increase the sound from volume level 0 (zero) to the preset volume.

Sleep timer operations (using the remote control unit)

- A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

- 1 Set to the required source and tune (broadcast or play back (CD or tape)).
- 2 Press the SLEEP button to set the sleep time.



SLEEP
SLEEP is shown in the display.
Se visualiza SLEEP en el display.
Affichage de mode de source (Relâchement de la minuterie de sommeil)

Sleep time settings of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.
Los ajustes de la hora del desconexión son 30, 60, 90 o 120 minutos. Cuando usted suelta el botón SLEEP la fuente es indicada después de transcurridos 5 segundos.
Des réglages de durée de sommeil de 30, 60, 90 ou 120 minutes peuvent être réglés. Quand vous relâchez la touche SLEEP, la source est affichée pendant 5 secondes.

- The sleep timer operation will start and the power will be switched off after the specified time (synchronise the CD).
- The operation of timer during tape operation but will switch off when the tape ends.

- Checking the sleep time
When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.
- To cancel the sleep timer operation
Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

1 Location of Main Parts

■ Front cabinet inside

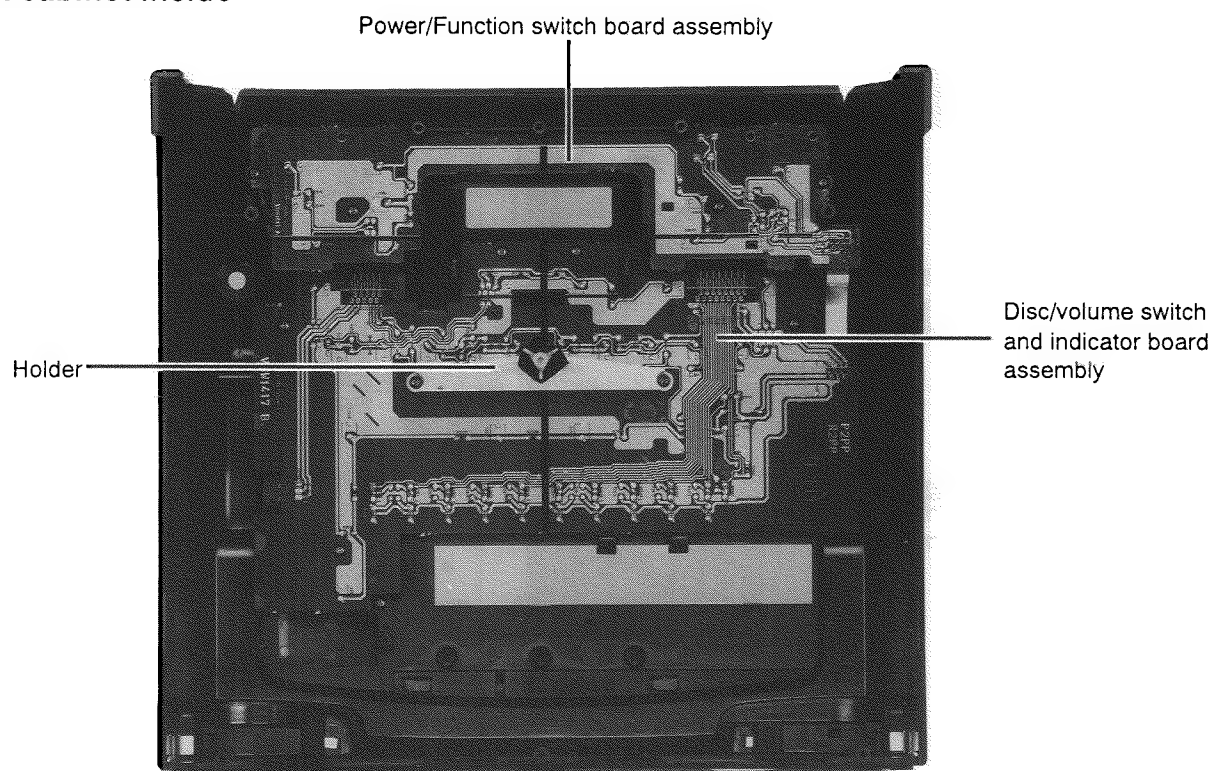


Fig. 1 – 1

Rear cabinet front view

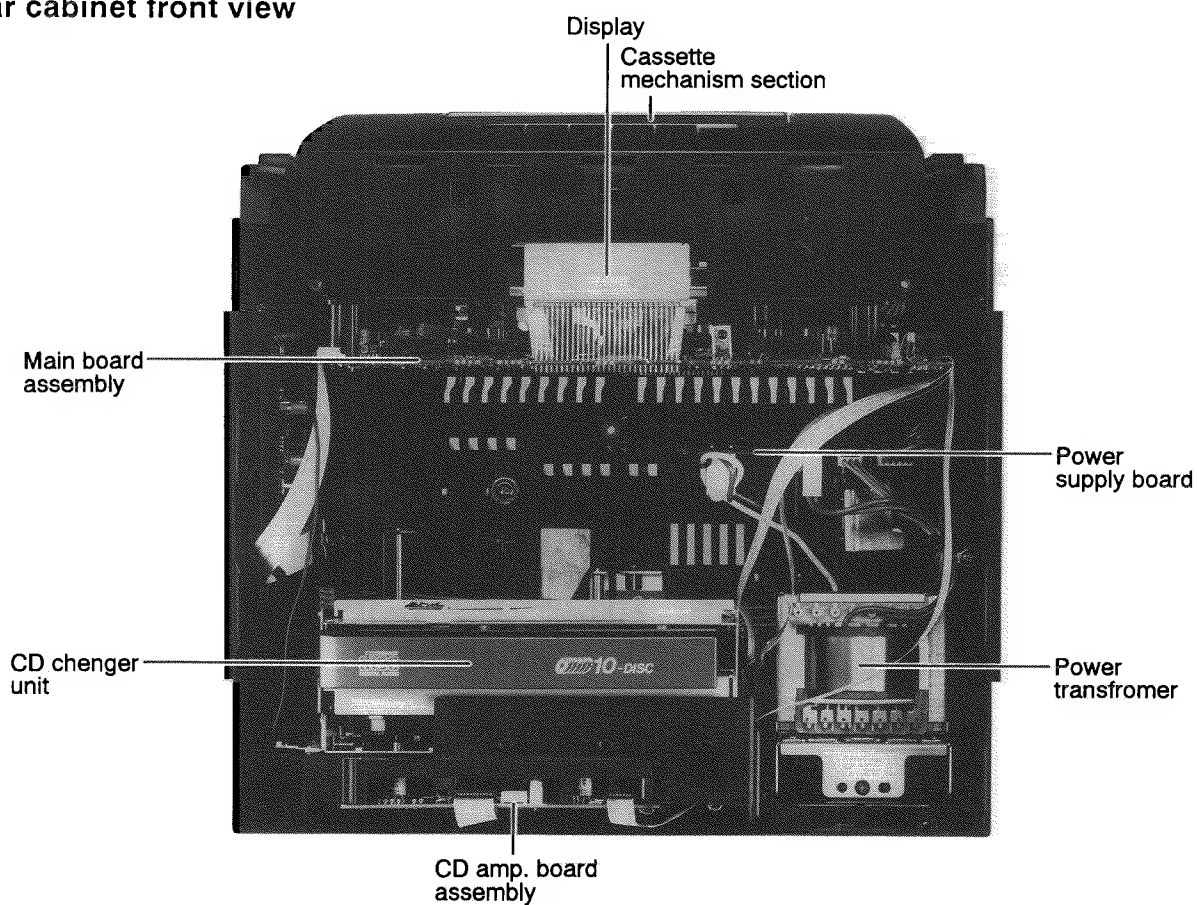


Fig. 1 – 2

■ CD unit (Top side)

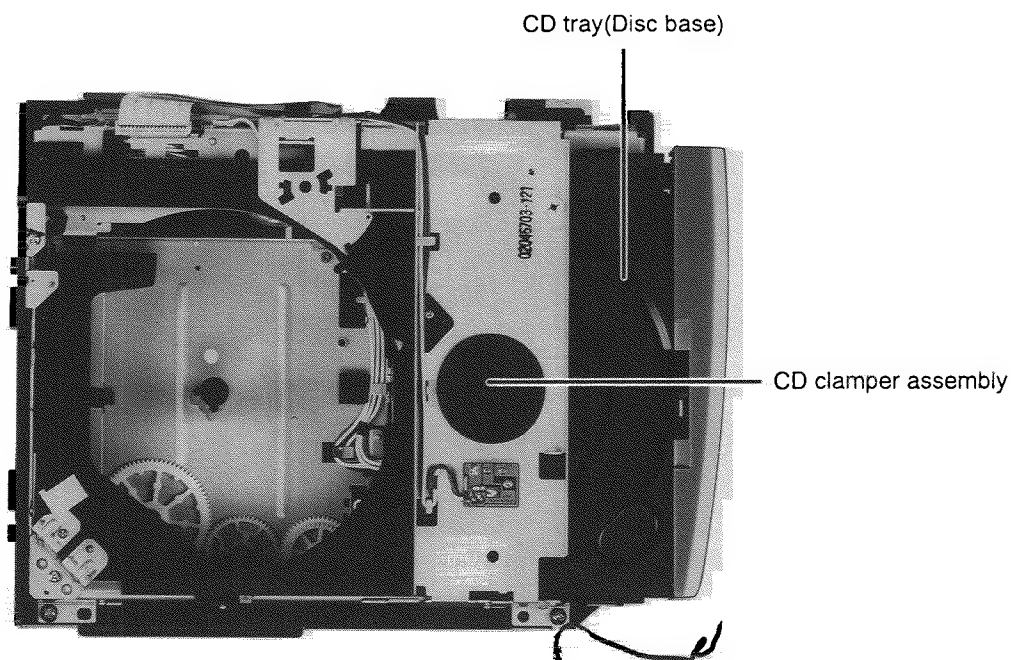


Fig. 1 – 3

■ CD unit (Bottom side)

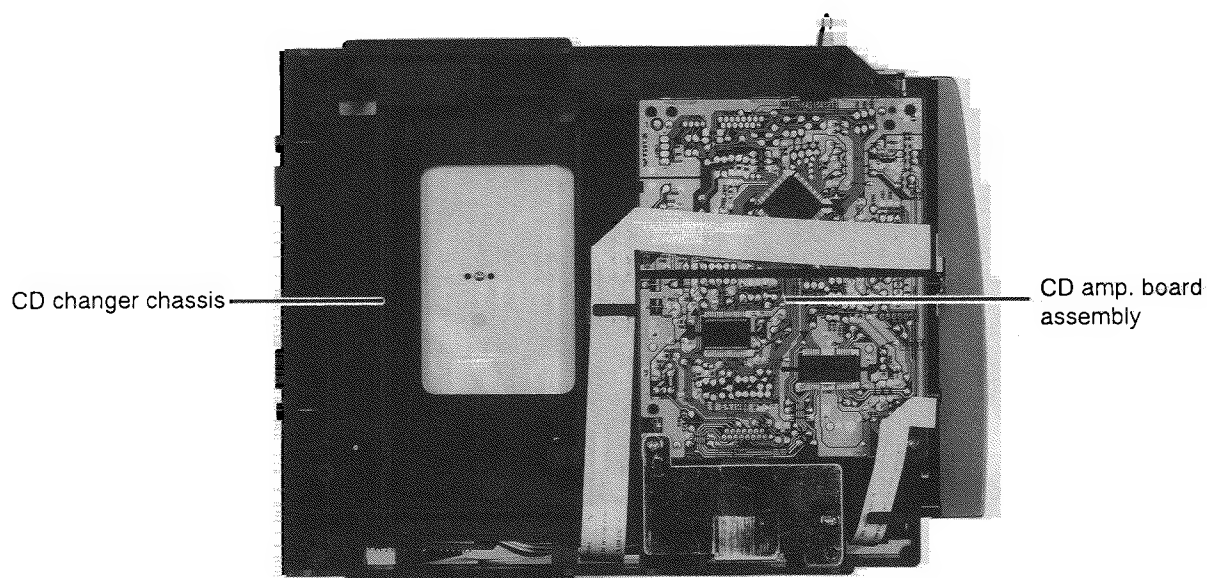


Fig. 1 – 4

■ Top cabinet (Top side)

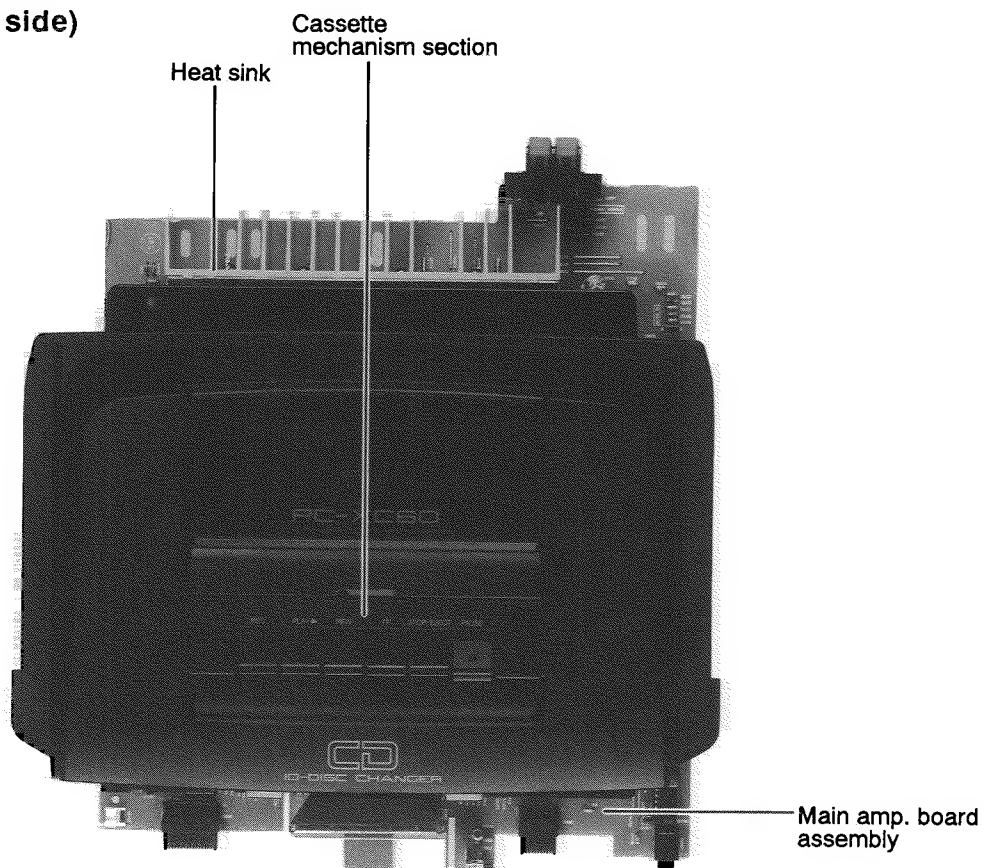


Fig. 1 – 5

■ Top cabinet unit (Bottom side)

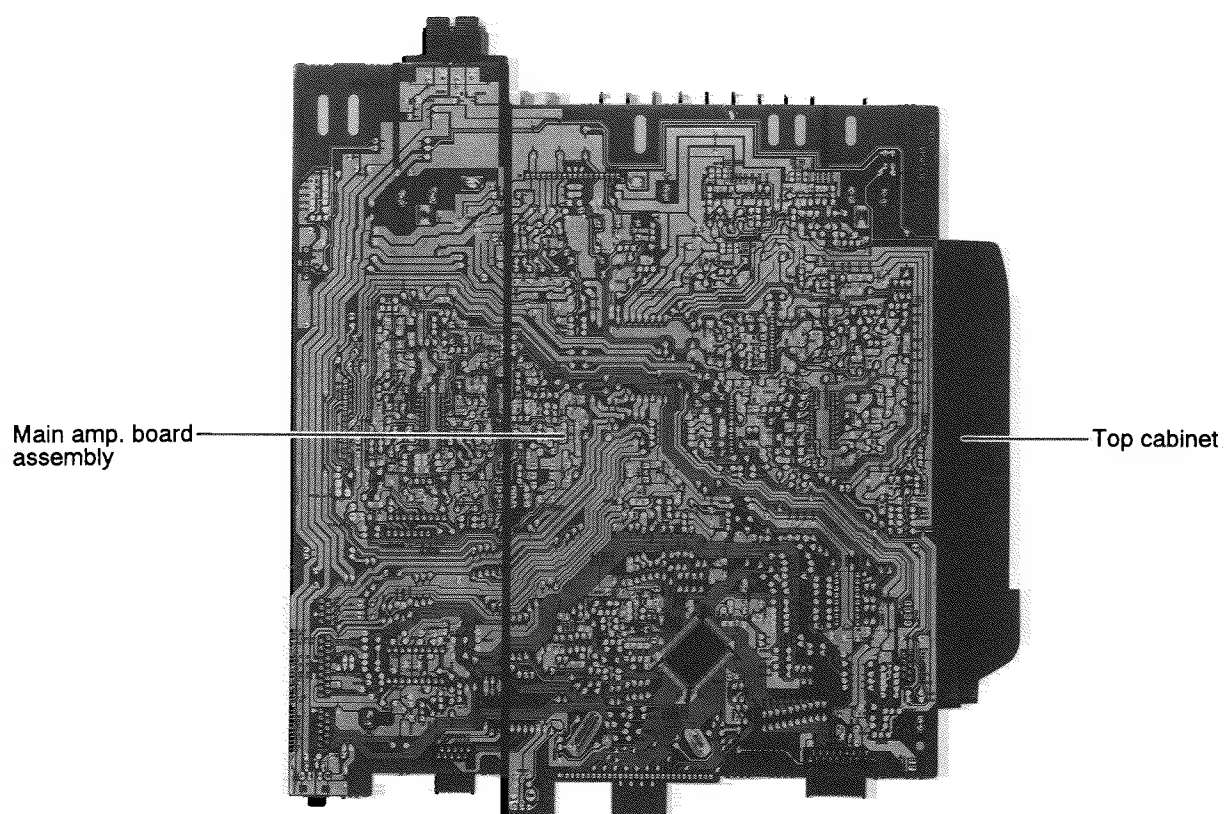


Fig. 1 – 6

■ Top cabinet (Bottom side)

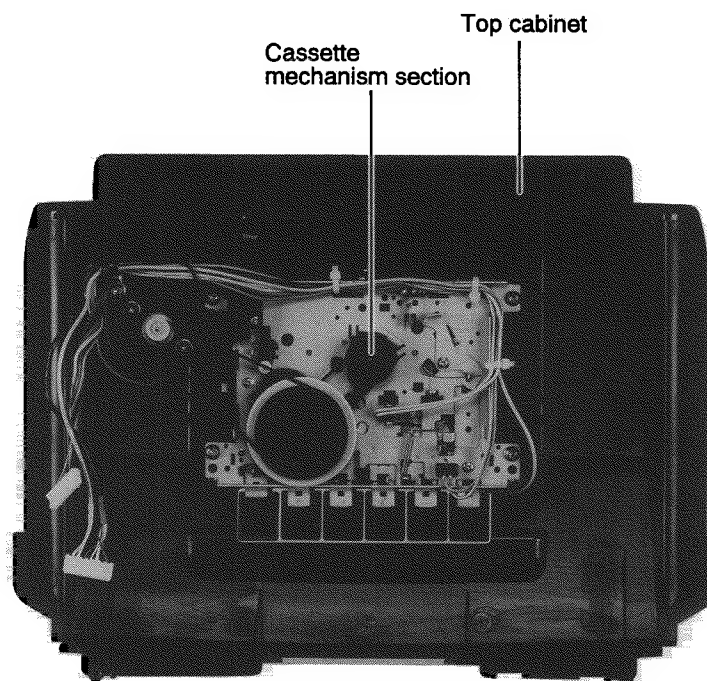


Fig. 1 – 7

■ Main board (Top side)

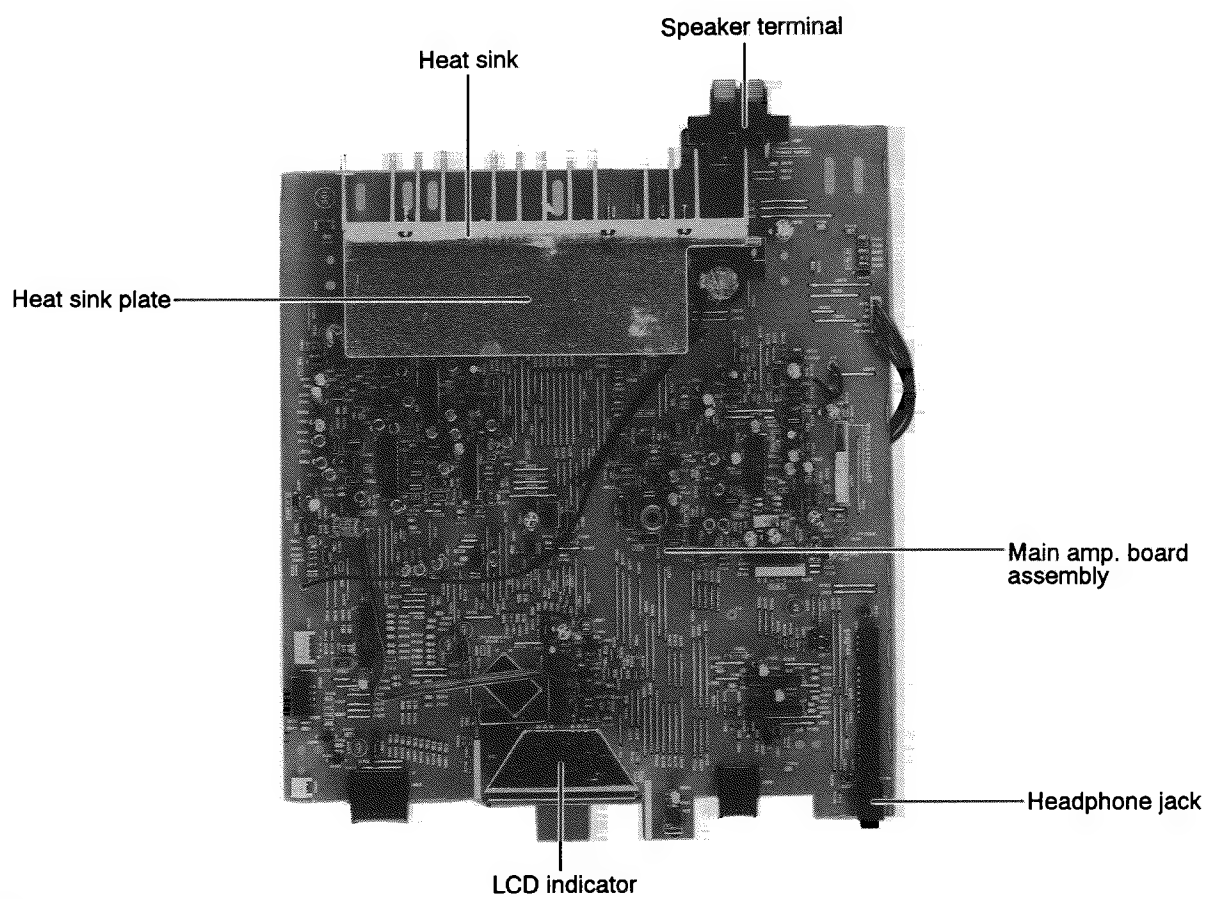


Fig.1 – 8

■ Rear cabinet inside view

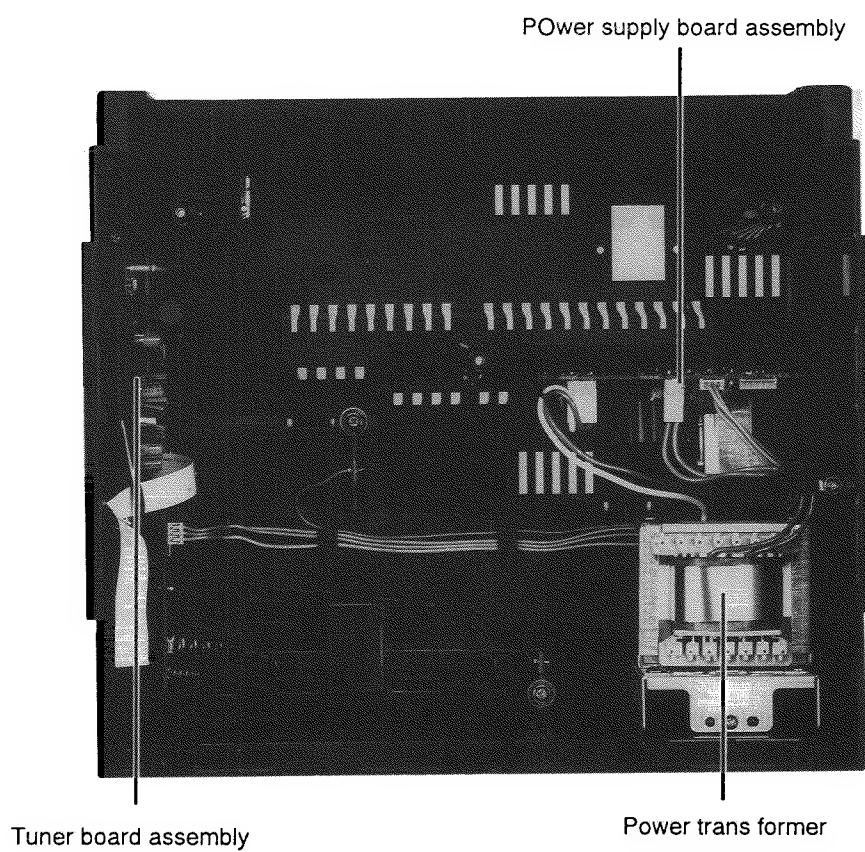


Fig. 1 – 9

2 Removal of Main Parts

■ Enclosure section

◆ Front cabinet (Fig. 2-1~Fig. 2-2)

1. Remove the six screws ① retaining the front cabinet from the rear and bottom. (Use a screwdriver with a shank length of 22 cm or more.)
2. Remove the two screws ② retaining the front cabinet from both sides.
3. The front cabinet can be removed if pulled towards the front.

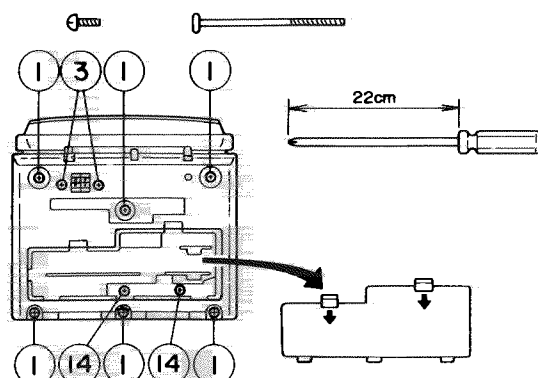


Fig. 2-1

◆ CD player unit (Fig. 2-3)

1. Disconnect the three flat wires connected to the CD player from main PC board connectors CN401, CN905, and CN904.
 2. Disconnect the changer earth connector CN403 on the main board.
 3. Remove the two screws ④ retaining the CD changer unit from battery house.
 4. The CD player unit can be removed from the rear cabinet if pulled towards the front.
- (※ At this time, you can replace the fuse mounted on the power PC board in the back right corner of the rear cabinet.)

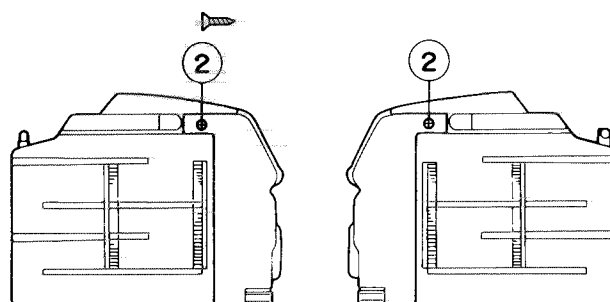


Fig. 2-2

◆ Cassette mechanism and main amplifier board assembly unit (Fig. 2-1, Fig. 2-3)

1. Remove the two screws ③ securing the speaker terminal from the rear of the rear cabinet. (See Fig. 2-1.)
2. From the front, disconnect the flat wire to the tuner PC board from main PC board connector CN903.
3. Pull out the cassette mechanism and main PC board ass'y from the rear cabinet, then disconnect the wire connector (FW601) on the main PC board from power PC board ass'y connector CN191 located in the back right corner of the rear cabinet.

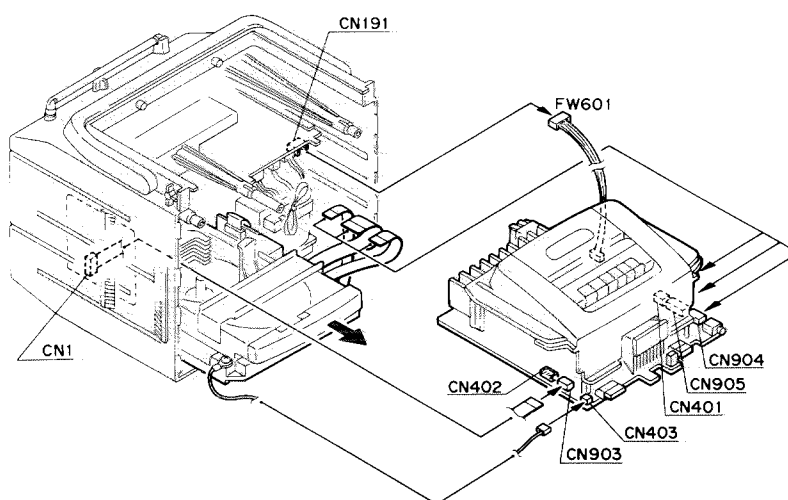


Fig. 2-3

◆ Power transformer and power supply board assembly (Fig. 2-4)

1. Install the AC jack of the power PC board assembly onto the rear cabinet, then remove the two screws ④.
2. Disengage the tab on the battery PC board, then remove the PC board together with the power PC board. If necessary, disconnect the connector to the power transformer and battery wire (CN192, CN193 and CN194).
3. Disengage the power transformer wire and battery wire holder.
4. Remove the three screw ⑤ retaining the power transformer assembly.

◆ Tuner board ass'y (Fig. 2-4)

1. Disconnect the antenna wire from TP1 on the tuner PC board.
2. Remove the two screws ⑦ retaining the PC board holder.
3. Pull out the PC board assembly from the rear cabinet.

◆ Internal parts of the front cabinet (Fig. 2-5)

1. Remove the front cabinet.
2. Remove the four screws ⑧ retaining the power/Function switch board.
3. Disengage the two pawls ⑨ retaining the power/Function switch board.
4. Remove the three screws ⑩ retaining the PC board holder.
5. Remove the five screws ⑪ retaining the changer switch PC board.
6. Remove the two pawls ⑫ retaining the changer switch PC board.

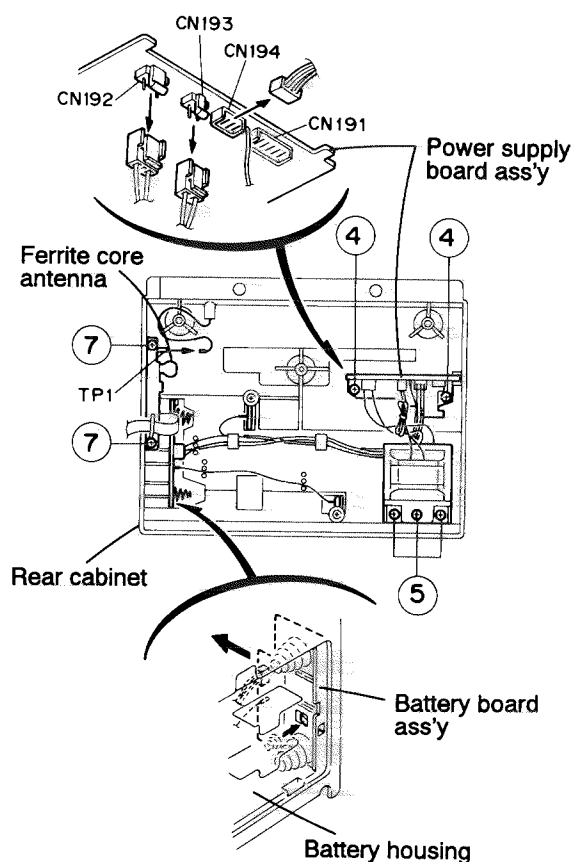


Fig. 2-4

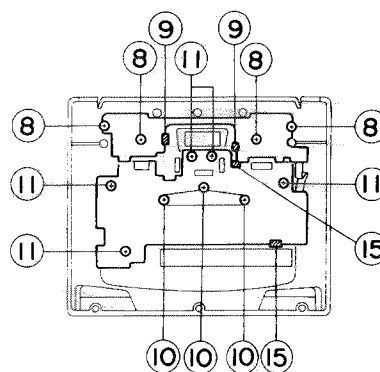


Fig. 2-5

◆ Main board ass'y and cassette mechanism ass'y

(Fig. 2-6~Fig. 2-7)

1. Remove the front cabinet.
2. Remove the cassette mechanism assembly and main board assembly unit from the rear cabinet.
3. Turn the unit upside down so that the top cabinet faces down.
4. Remove the four screws ⑫ retaining the main board ass'y.
5. Slightly lift the main PC board, then disconnect the parallel wires coming from the switch PC board assembly from CN701 on the main PC board assembly.
6. Turn the main PC board assembly upside down (the parts side will face up). Disconnect the wire holder PP on the PC board, then disconnect the A mechanism head wire CN702 (7 pins), the B mechanism head wire CN701 (3 pins), and the mechanism drive connector CN703 (15 pins).
7. Remove the six screws ⑬ retaining the mechanism.
8. Open the cassette door, then remove the cassette mechanism unit from the top cabinet.

◆ Removing the cassette door (Fig. 2-8)

- a. Remove the cassette mechanism ass'y, push the cassette door left arm inward, disengage the door shaft and remove it from the top cabinet. Make sure to hold the edge while performing this step or the door spring may fly out, possibly causing injury.
- b. When reattaching, start with the door spring side, then push the opposite side in.
- c. Fit the door spring into the slit.

(※ Although cassette door removal is possible with the mechanism assembly mounted, removing the mechanism assembly beforehand will make it easier and ensure correctness.)

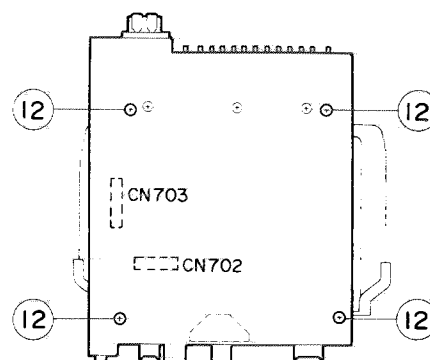


Fig. 2-6

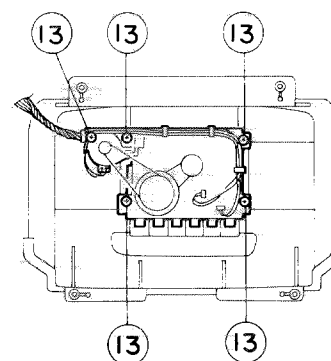


Fig. 2-7

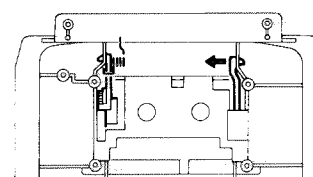


Fig. 2-8

■ CD changer section

◆ Removing the CD Mechanism Holder

1. Remove the four screws ① retaining the CD mechanism holder.
2. After turning over the changer unit, remove the two screws ② retaining the shield plate and one screw ③ retaining the CD amp.
3. Remove the shield plate of the pickup unit, and raise the CD amp. P.C. board assembly. Next, disconnect the two wires connecting the P.C. board and CD mechanism, as well as the pickup card wire (CN601) and motor wire (CN602).

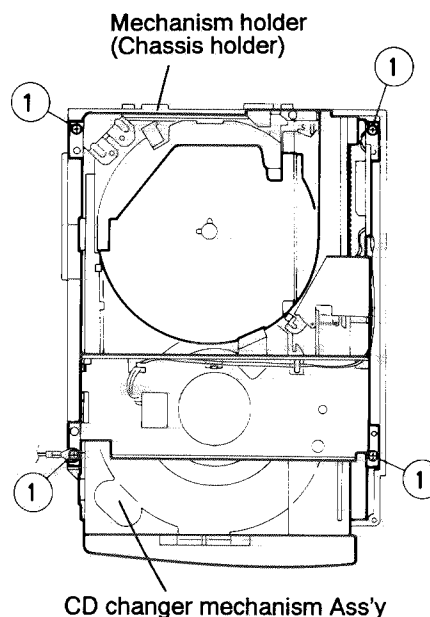


Fig. 2-9

◆ Clamper Unit

1. Remove the two screws ④ retaining the clamper unit from both sides of the mechanism.
2. After opening the bottom side of the clamper bracket a little toward outside, remove the bracket.
3. Remove the sensor P.C. board as necessary from the clamper bracket (For this purpose, remove the one screw retaining the P.C. board).

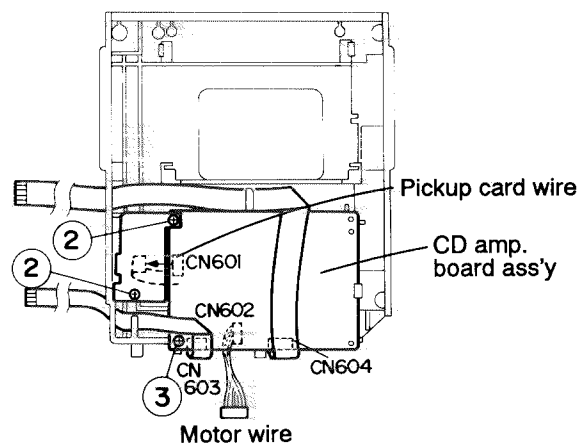


Fig. 2-10

◆ CD Tray (Disc Base)

* Under the conditions wherein the laser pickup has been raised, lower the pickup while turning the gear G4 (L) of the CD mechanism unit fully in clockwise direction. Then, it will become ready to pull out the tray.

1. After pulling out the CD tray by about 50 mm, remove the one screw ⑤ retaining the stopper bracket provided on the right side of the tray.
2. Pull out the tray fully to the movable position, and turn over the changer unit.

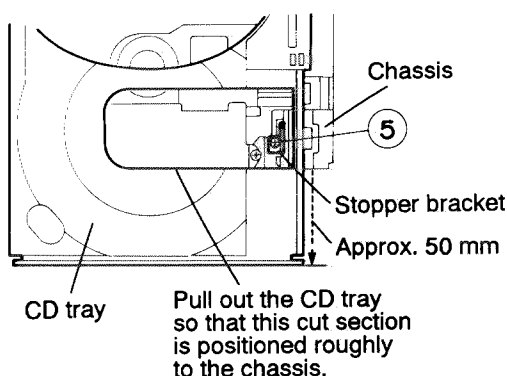


Fig. 2-12

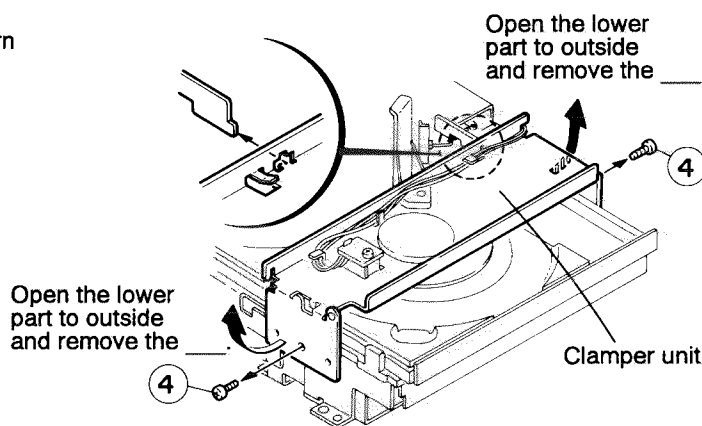


Fig. 2-11

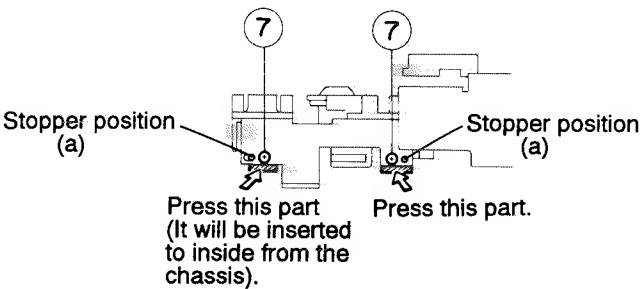
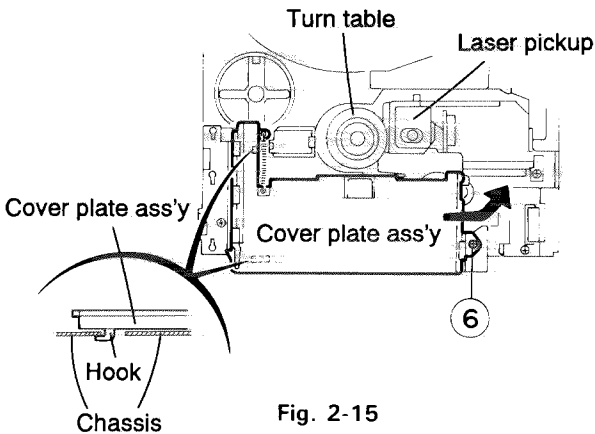
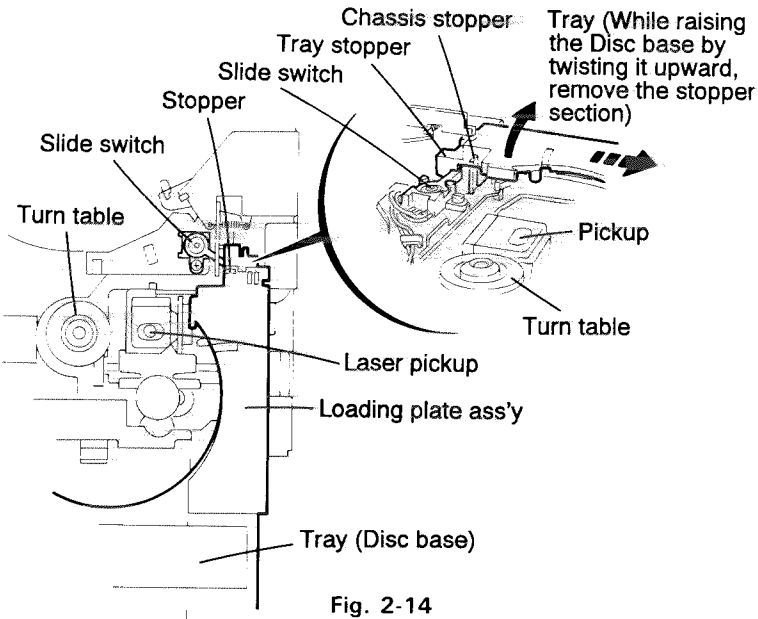
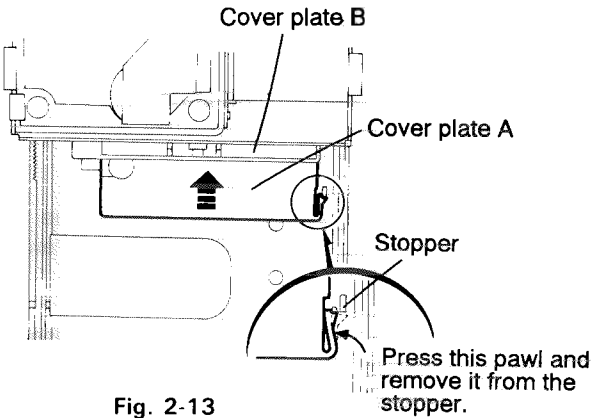
3. Remove the pawl of the cover plate from the tray stopper. Then, the cover plate A can be moved closer to the cover plate B by means of spring action.
4. Set the changer unit to its normal position (by turning the unit to its initial position).
5. After fully pulling out the tray, remove the tip section on the right side of the tray (Disc base) from the stopper.
 - a: Pull out the tray while twisting it upward so as to make it possible to pull out the tray (Disc base) from above the slide switch (blue) lever. Then the chassis stopper section will be removed together with the tray at the same time.
 - b: Thus, the tray will be removed at the same time (The loading plate will be set free under this condition). For assembly, insert the tray while pulling up the tip on the right side of the tray so as to cross over the chassis stopper section. Then, it will be made possible to smoothly insert the slide switch section.

◆ Cover Plate Ass'y

1. Remove the one screw ⑥ retaining the cover plate Ass'y.
2. While sliding the cover plate toward the right side, remove the cover plate ass'y while raising the right side of the cover plate (screw setting position).

◆ CD Mechanism Unit

1. From the right side of the changer chassis, remove the two screws ⑦ retaining the CD mechanism unit.
2. While pressing the two stopper sections (a) of the CD mechanism holder toward inside, remove the stopper.



3. In case the CD mechanism unit cannot be removed smoothly, turn the gear G4 (L) in the counterclockwise direction. Then, the CD mechanism unit will be removed smoothly.

< Assembly >

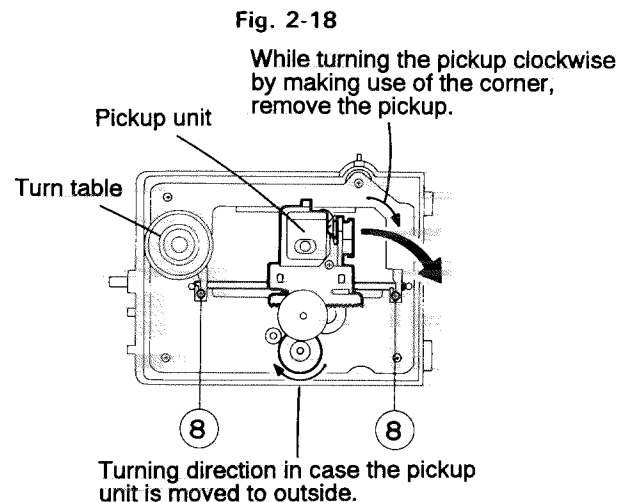
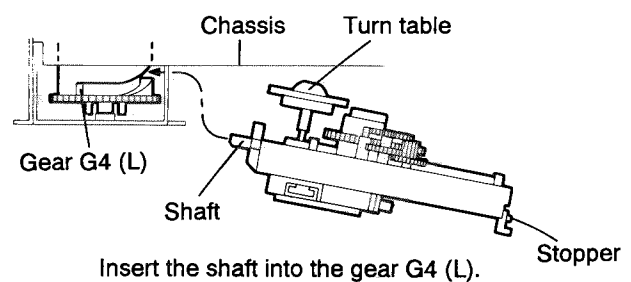
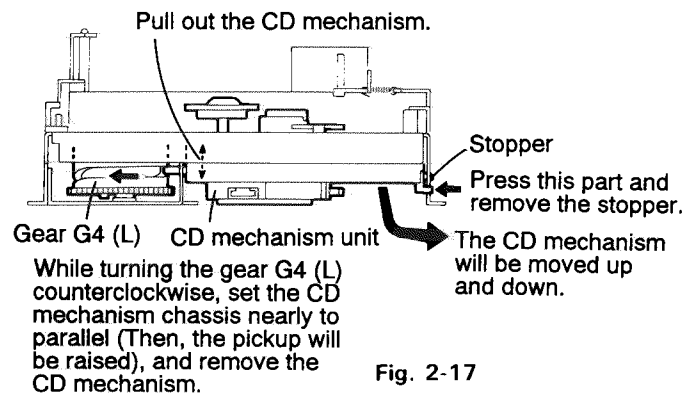
1. Insert the CD mechanism holder boss on the left side of the CD mechanism unit into the groove of the gear G4 (L).
2. Set the stopper on the right side of the CD mechanism holder onto the chassis and fix the chassis with the related screws.

< Pickup Ass'y >

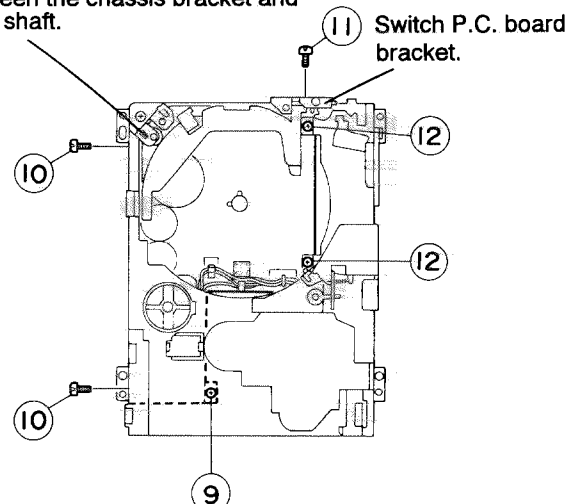
1. Remove the two right and left screws ⑧ retaining the pickup shaft stopper.
2. After moving the pickup to outside while turning the gear, pull out the shaft and remove the pickup while turning the pickup at the corner in clockwise direction.

◆ Gear Chassis Unit

1. From the upper front surface, remove the one screw ⑨ retaining the chassis unit.
2. From the left side surface, remove the two screws ⑩ retaining the chassis unit.
3. For protecting the switch, remove the one screw ⑪ retaining the switch P.C. board from the back side.
4. From the upper surface, remove the two screws ⑫ retaining the right side of the gear chassis.



This washer should be inserted between the chassis bracket and gear shaft.



■ Cassette mechanism section

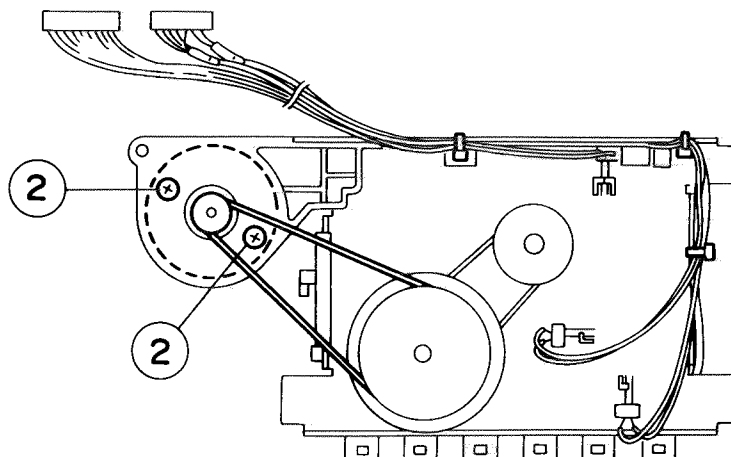


Fig. 2-21

■ Capstan motor (Fig. 2-21)

1. Remove the Front panel assembly.(Refer to the article“Front panel assembly”appearing on a previous page)
2. Remove the Cassette mechanism assembly.(Refer to the article“Cassette mechanism assembly” appearing on a previous page)
3. Remove the Main board(Refer to the article “Main board” appearing on a previous page.)
4. Remove the Cassette mechanism. (Refer to the article“ Cassette mechanism”appearing on a previous page.)
5. Take out the main belt from the flywheel assembly of mechanism.
6. Remove two screws ② retaining the Capstan motor from the back of the cassette mechanism.

■ Eject slide lever (Fig. 2-22)

1. Place the cassette mechanism back side frontward and disengage the stopper arm ① of the Eject slide lever by pressing it inwards through the opening of the chassis with a small screwdriver as shown in Fig. 2-22.
2. Disengage the Eject slide lever in the direction of arrow ③.

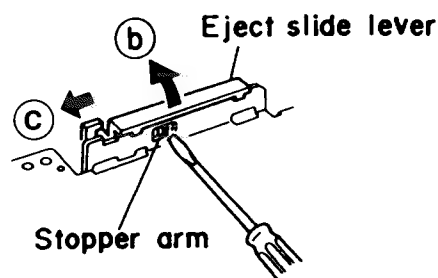


Fig. 2-22

■ Leaf switch (Fig. 2-23)

Press the leaf switch in the direction of the arrow ④ and then remove it in the direction of the arrow ⑤ referring to Fig. 2-23.

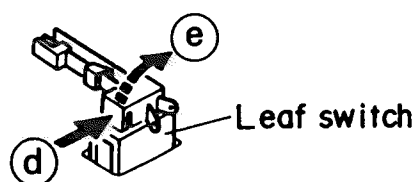


Fig. 2-23

■ Pinch roller assembly (Fig. 2-24)

1. Pull out the stopper protruding from the base assembly in the direction of the arrow ① to remove it from the pinch roller assembly.
2. Then, pull out the pinch roller assembly in the direction of the arrow ②.

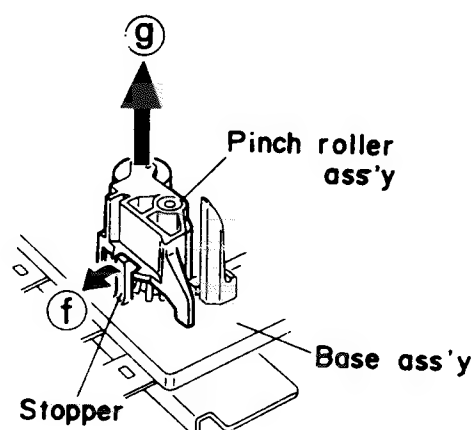


Fig. 2-24

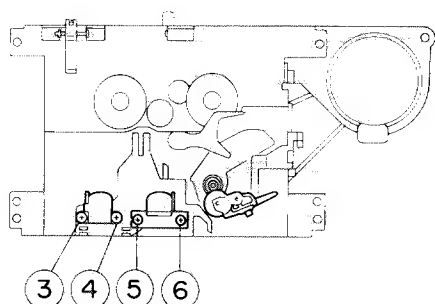


Fig. 2-25

■ Record/Playback head & Erase head (Fig. 2-25, Fig. 2-26)

1. Remove two screws ⑤ and ⑥ retaining the Record/Playback head of mechanism A.
2. Remove two screws ⑦ and ⑧ retaining the Playback head of mechanism B.
3. Remove two screws ③ and ④ retaining the erase head.

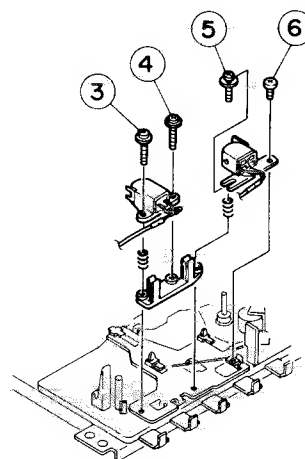


Fig. 2-26

■ Flywheel assembly (Fig. 2-27)

1. E. washer retaining the flywheel assembly in the direction of arrow ①.
2. Pull the flywheel assembly out of the back side of the cassette mechanism in the direction of the arrow ②.

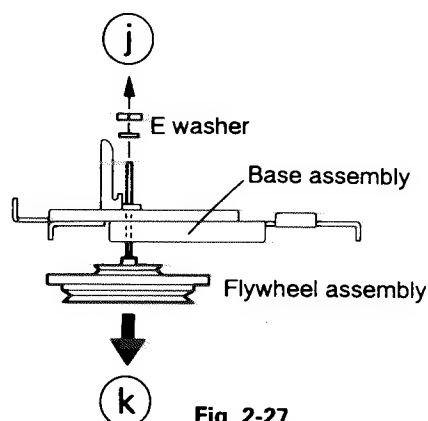


Fig. 2-27

3 Main Adjustment

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency: 50Hz to 20kHz)
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
VTT712 (VT712) For tape speed,wow and
flutter measurement
VTT724 (VT724) For play back output level
VTT739 (VT739) For playback frequency
response check
VTT703 (VT703) For head azimuth measurement
4. Electronic voltmeter, Distortion meter
5. Resistor...600 Ω for attenuator matching
6. Torque gauge..... Cassette type for CTG – N
mechanism adjustment
7. Wow and Flutter meter , Frequency counter
8. Blank tape..... Normal:UR,Chrome: AC225

■ Measuring conditions (Amplifier section)

Supply voltage AC120 V (60 Hz)
Reference output : Speaker 0 dBs (0.775V) / 3 Ω
(Volume Level: 19)
: Headphone · – 10 dBs (0.245V)/ 32 Ω

● Standard position of functionswitches

Function switch TAPE
Mode switch STEREO

● Standard position of volume control

Sound Flat position
AHB PRO OFF
Main volume adjust 0 dBs Speaker out(Vol.19)
Headphone out (Vol. 20)
Beat cut switch Cut1
Standard test frequency..... 1 kHz
; unless otherwise specified.
Reference input level TP(CN402): – 20dBs
Input for REC/PB, Check &measuring CN301
: –20 dBs

● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channeles Electronic voltmeter, the negative side never connect commonly.
2. Replaced output load with a dummy and that lead wire to be used as big as possible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

■ Measuring condition (Radio section)

Refer to rating source Tuner+B : DC 5.7V
Reference output Speaker : 20mW(0.245 V) / 3 Ω
Headphone : 0.11 mW (0.06 V)/32 Ω
AM frequency 400Hz modulation 30%
FM frequency 400Hz modulation
frequency deviation 22.5kHz

● Standard position of switches and controllers

Function..... RADIO
Mode STEREO

● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
- 2.Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order
Procedure of the steps of tracking should be kept.

◎ Test point : CN402 (Top view)

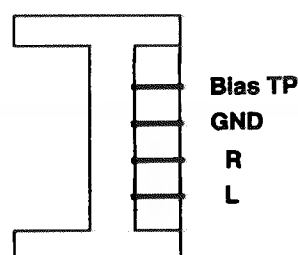


Fig. 3 – 1

■ Arrangement of adjustment position

■ Cassette mechanism

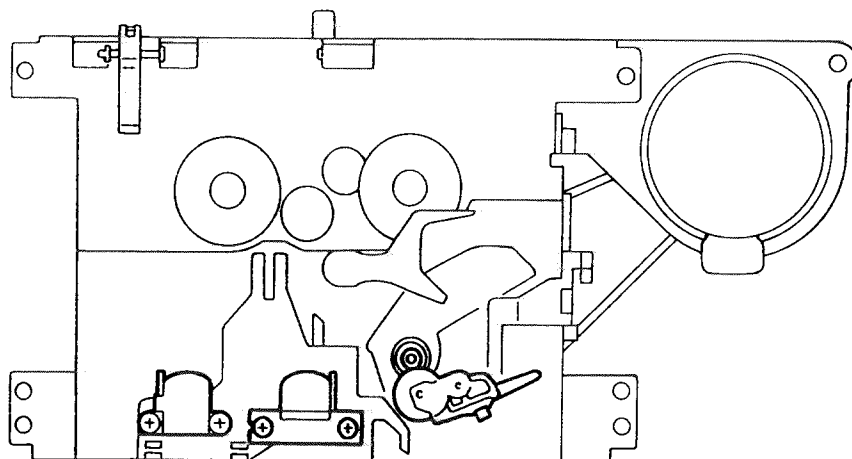


Fig. 3-2

■ Tuner board

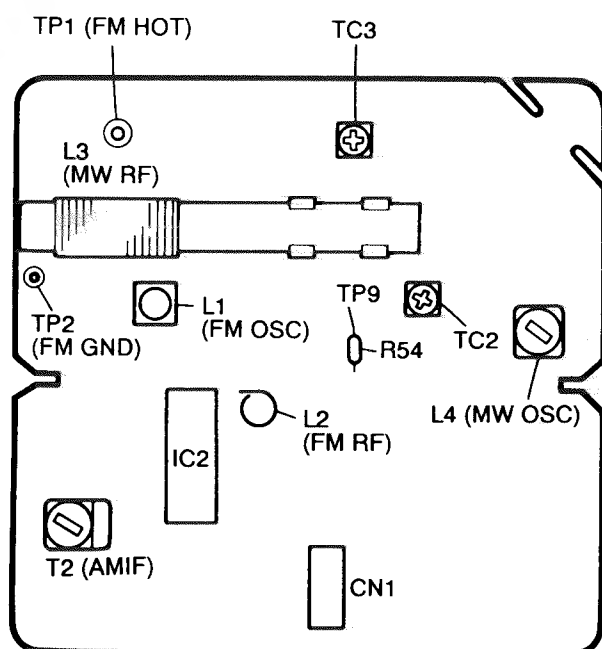


Fig. 3-3

■ Main board

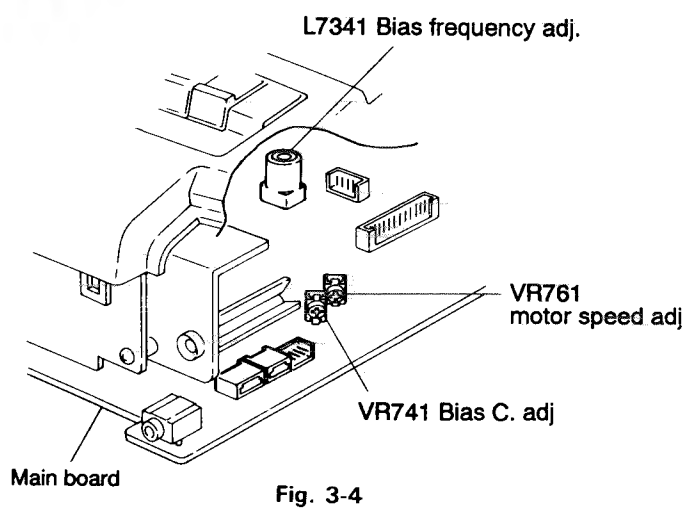


Fig. 3-4

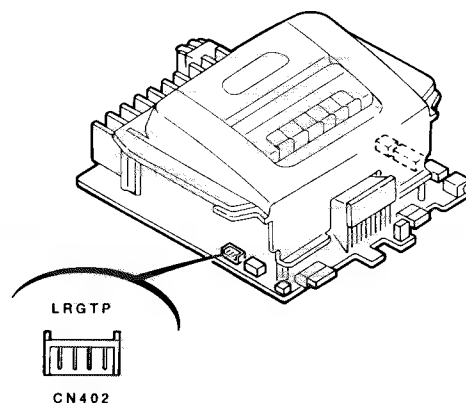


Fig. 3-5

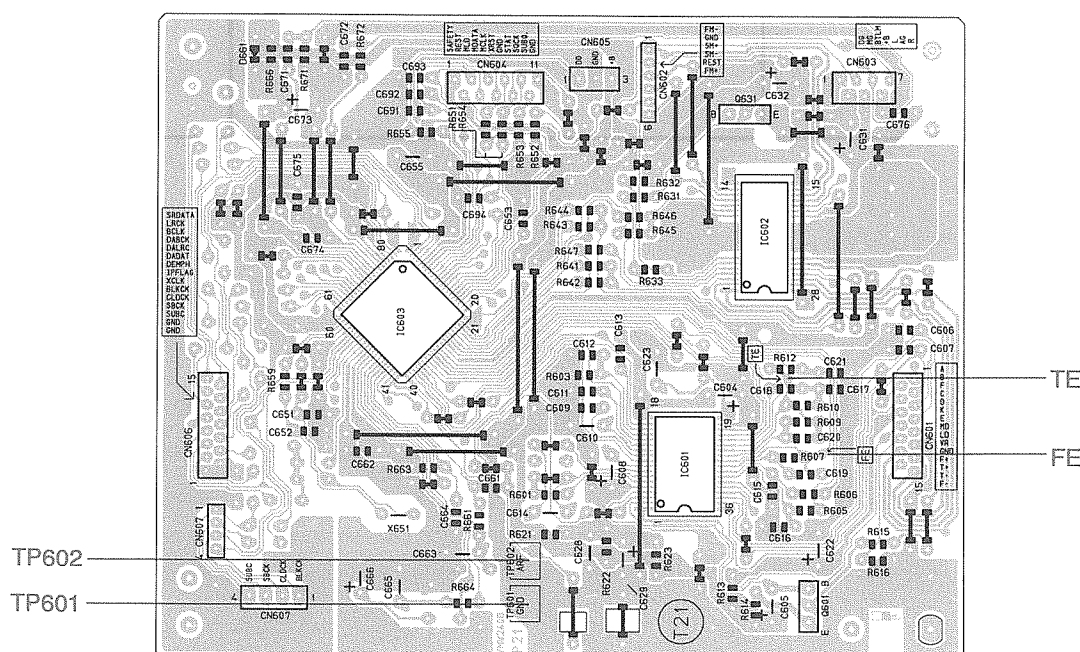
Cassette and amplifier section

Item	Conbitions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustmentf	<ul style="list-style-type: none"> • Test tape : VTT703(10KHZ) • Output terminal for measurement : Headphone • Input terminal for measurement : CN301 	<p>* Adjust the head azimuth screw only when the head is replaced.</p> <ol style="list-style-type: none"> ① Playback test tape VTT703 (10kHz). ② Adjust the head azmiuth so that the phase difference is minimum (Within 2dB of the peak level of play output.) After adjustment apply the screw locking adhesive to the head azimuth screw more than a half around the screw head. 	<p>Within 2dB of the peak lebel</p> <p>Minimum phase difference</p>	Head azimuth adjusting screw
Tape speed adjustment and wow & Flutter checking	<ul style="list-style-type: none"> • Tast tape : VTT712 (3kHz) • Output terminal for measurement : Headphone 	<ol style="list-style-type: none"> ① When playing test tape VTT712 (3kHz). ② Adjust VR761 so that the frequency counter reading is 2990Hz~3010Hz. ③ Wow & Flutter should be less than 0.4% (JIS UNWTD). 	<ul style="list-style-type: none"> • Tapre speed : 2990Hz~3010Hz <p>Wow & Flutter : Less than 0.4% (JIS UNWTD)</p>	VR761
Play back output level checking	<ul style="list-style-type: none"> • Tast tape : VTT724 (1IHZ) • Output terminal for measurement : Headphone 	<ol style="list-style-type: none"> ① When Playback the test tape VTT724 (1kHz), the output level at headphone is $-24\text{dB} \pm 3\text{dB}$ at 1kHz. ② Deviation L and R : less than 3dB. 	$-24\text{dB} \pm 3\text{dB}$	
Playback frequency response checking	<ul style="list-style-type: none"> • Tast tape : VTT739 • Output terminal for measurement : Headphone 	When playback the test tape VTT739, response should be $-5\text{dB} \pm 4\text{dB}$ at 63Hz and 1kHz, $+5\text{dB} \pm 4\text{dB}$ at 10kHz and 1kHz with respect to 1kHz.	<p>63Hz and 1kHz</p> <p>: $-5\text{dB} \pm 4\text{dB}$</p> <p>10kHz and 1kHz</p> <p>$+5\text{dB} \pm 4\text{dB}$</p>	
Adjusting the bias oscillation frequency	<p>Test tape: AC – 513</p> <p>Measured output pin: Oscillation coll secondary side (erase)</p>	<ol style="list-style-type: none"> ① Connect a frequency counter (with a 1M Ω resistor inserted in series)to the L7341 secondary side erase pin. ② Load the test tape (AC – 513)in the deck and set to Record – Pause mode. ③ Adjust the L7341 so that the frequency counter level reads $101.1\text{kHz} \pm 1\text{Hz}$ in Record mode. 	$101.1\text{kHz} \pm 1\text{kHz}$	L7341
Record/playback frequency response adjustment	<ul style="list-style-type: none"> • Reference frequency : 1kHz, 10kHz (Ref. – 20dB) • Test tape: AC224 • Output terminal for measurement : CN301 	<ol style="list-style-type: none"> ① Record and playback the 1kHz reference frequency and 10kHz signal and check at treminal CN301. ② Adjust the VRA41 so that record and playback frequency response with 1kHz and 10kHz at CN301 is $\pm 0\text{dB} \pm 1\text{dB}$. ③ Comfirm that the frequency counter reading is $101.0\text{kHz} \pm 0.15\text{kHz}$. If the reading is out of this range, adjust L7341. 	<p>$+5\text{dB} \pm 2\text{dB}$</p> <p>$101.1\text{kHz} \pm 0.15\text{kHz}$</p>	<p>VR741</p> <p>L7341</p>
Record/playback sensitivity check	<ul style="list-style-type: none"> • Test tape: VTT724, AC224 	While recording/playing back sn input signal of the reference leve (REC level), confirm that difference between the REC/PB level of the input signal and PB level of the VTT724 test tape is within $0 \pm 3\text{dB}$.	$0 \pm 3\text{dB}$	

Tuner section

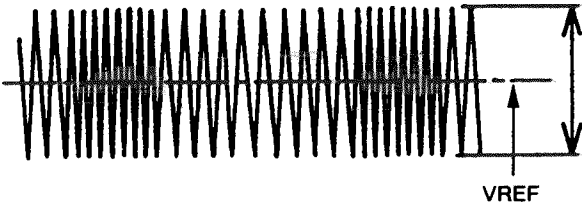
Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
FM, AM IF adjustment		☆ Since a solid IF is being used, no adjustment is required.		
MPX adjustment		☆ Since a ceramic resonator is being used, no adjustment is required.		
FM tracking adjustment		☆ Since a fixed coil is being used, no adjustment is required.		
AM tracking adjustment	<ul style="list-style-type: none"> Band : AM Signal input Standard loop antenna Test point : TP1(Positive) : TP2(Negative) : TP9 Signal output : CN1 	<ol style="list-style-type: none"> Confirm so that the CN1 output is maximum when 530kHz(preset 1) is received from AM signal generator. Incase voltage at TP9 is more than 5.0V. adjust L4 to obtain $5.0 \pm 0.1V$ at TP9. Adjust L3 so that the CN1 output is maximum when 600kHz(preset 3) is received from the AM signal generator. Adjust TC2 so that the CN1 output is maximum when 1500kHz(preset 4) is received from the AM signal generator. Repeat the item ④, ⑤, adjust for no further improvement. 	Output level : Maximum $5.0 \pm 0.1V$ at TP9. Output level : Maximum Output level : Maximum	 L4 L3 TC2 L3 , TC2

Adjusting position of CD amplifier board

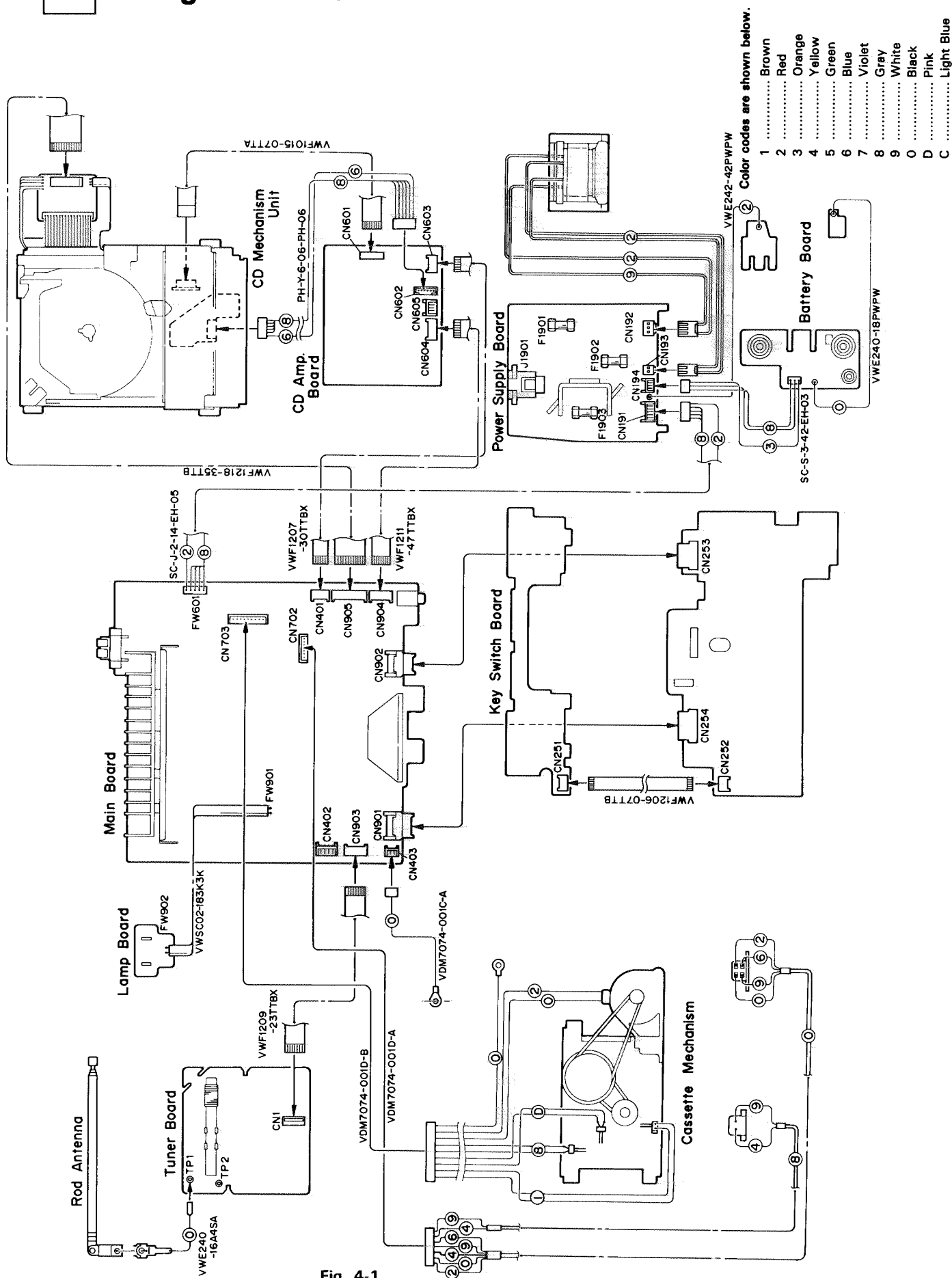


■ CD section

Items	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
1. Checking jitter	Measurement equipment: Oscilloscope (jitter meter) Test points: TP601: ground side TP602: hot side	Connect the jitter meter between the TP601 and TP602, and check that the jitter meter reads 26 nsec. or less when playing back the test disc "Track 1".	26 nsec. or less	
2. Checking the RF level (eye pattern)	Measurement equipment: Oscilloscope TP601: ground side TP602: hot side	Connect the oscilloscope between the TP1 and TP2, and check that the peak-to-peak value of the oscilloscope waveform reads within $1.1 \text{ V} \pm 0.2 \text{ V}$ when playing back the test disc "Track 1". Eye pattern waveform	$1.1 \text{ V} \pm 0.2 \text{ V}$ Check that the maximum level of this waveform is within the standard values and that the waveform is clearly visible.	
3. Checking the outermost area	CTC-1000	Select "Track 28" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		
4. Checking the pickup movement from the outer area to the inner area		Allow the pickup to skip over from the disc's outermost area to "Track 1" and check that it takes within 10 seconds for the player to enter Play mode.	Within 10 seconds	

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope input should be DC – coupled. Note 3 VREF: Ground level on the oscilloscope.	① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ② Replay the test disc CTS1000. ③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily). ④ Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF). ⑤ Repeat the steps ② ~ ④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function).	Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).	VR501
<div style="text-align: center;"> <p>Tracking error signal</p>  <p>VREF</p> </div> <div style="text-align: right; margin-top: 10px;"> <p>Adjust the waveform becomes vertically symmetrical to the reference voltage value of servo.</p> </div>				

4 Wiring Connections



5 Troubleshooting

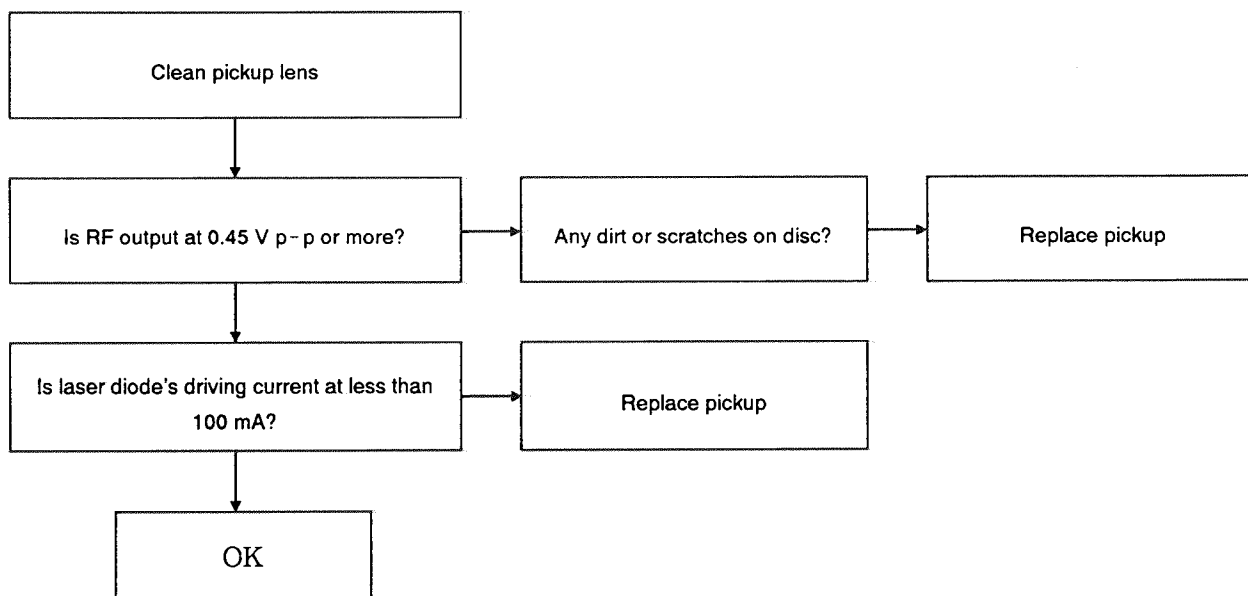
■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑱ (GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10 Ω .)

◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R614 (V)/10 (Ω)

When voltage level is at 1.0 V:

1.0 V/10 Ω = 0.1 A = 100 mA

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

◆ HOW TO OPERATE THE CD SELF - DIAGNOSIS FUNCTION

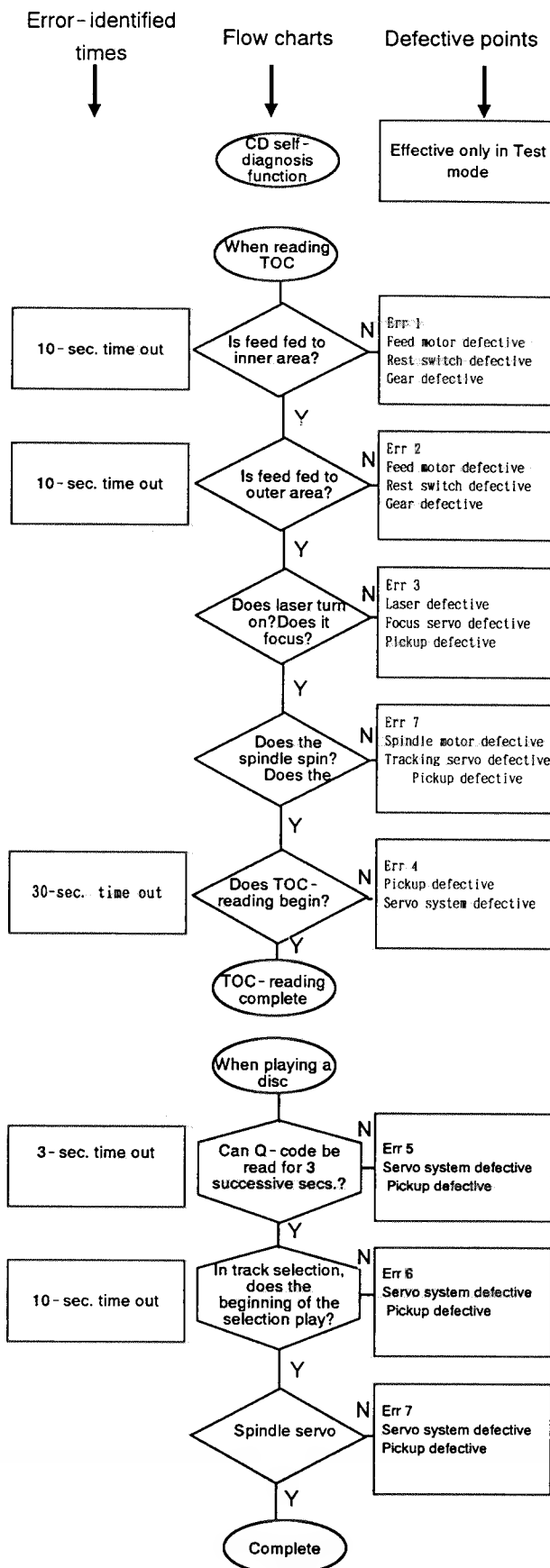
◆ The CD Self-diagnosis Function

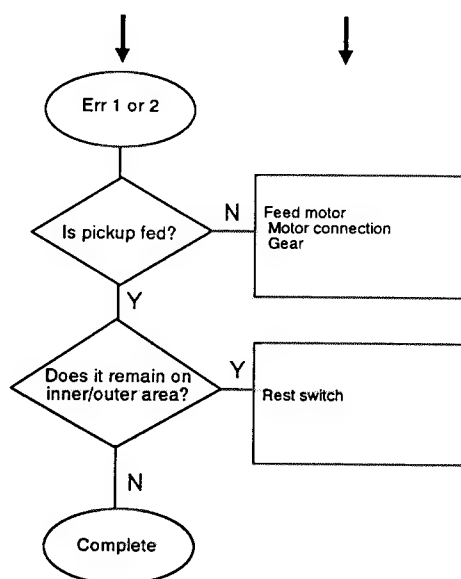
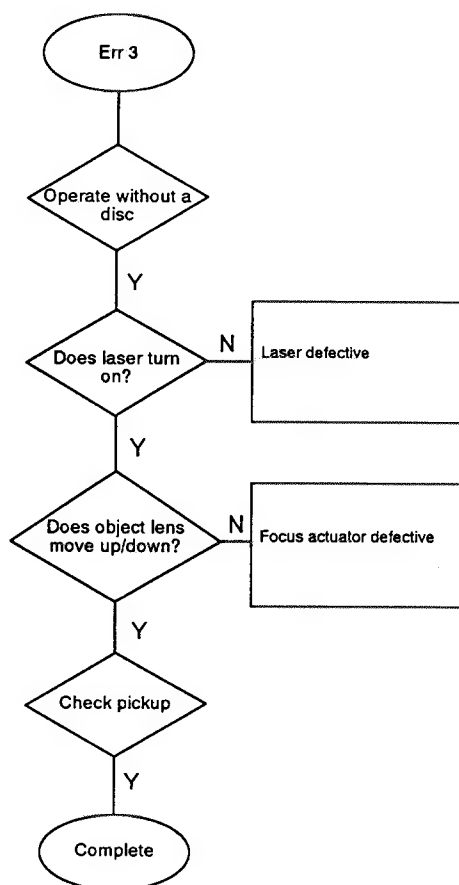
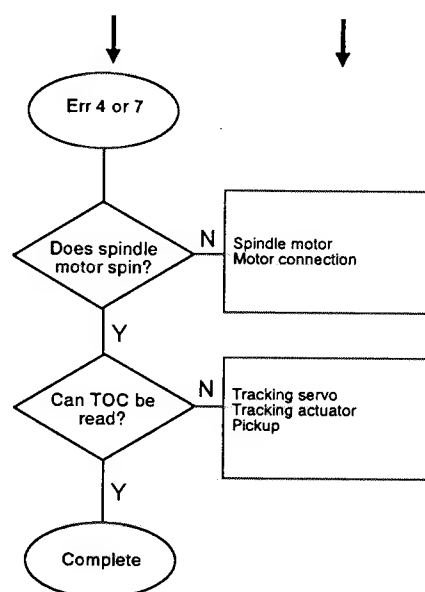
If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

1. Operation

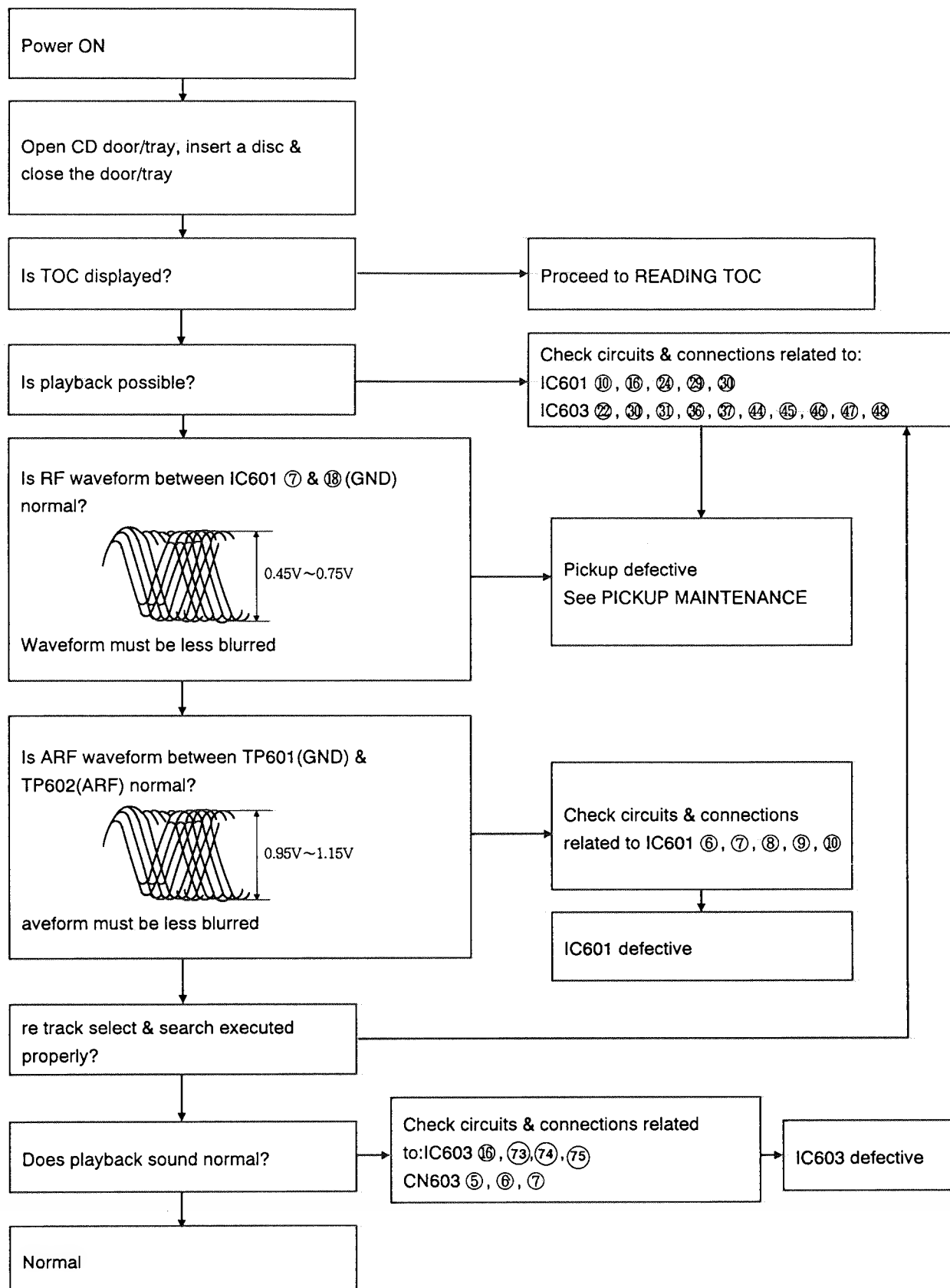
- ① Press the three **◀◀**, **+10** and **POWER** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- ② Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- ③ Identify the point of malfunction in accordance with the error code displayed.

2. Error codes & defective points

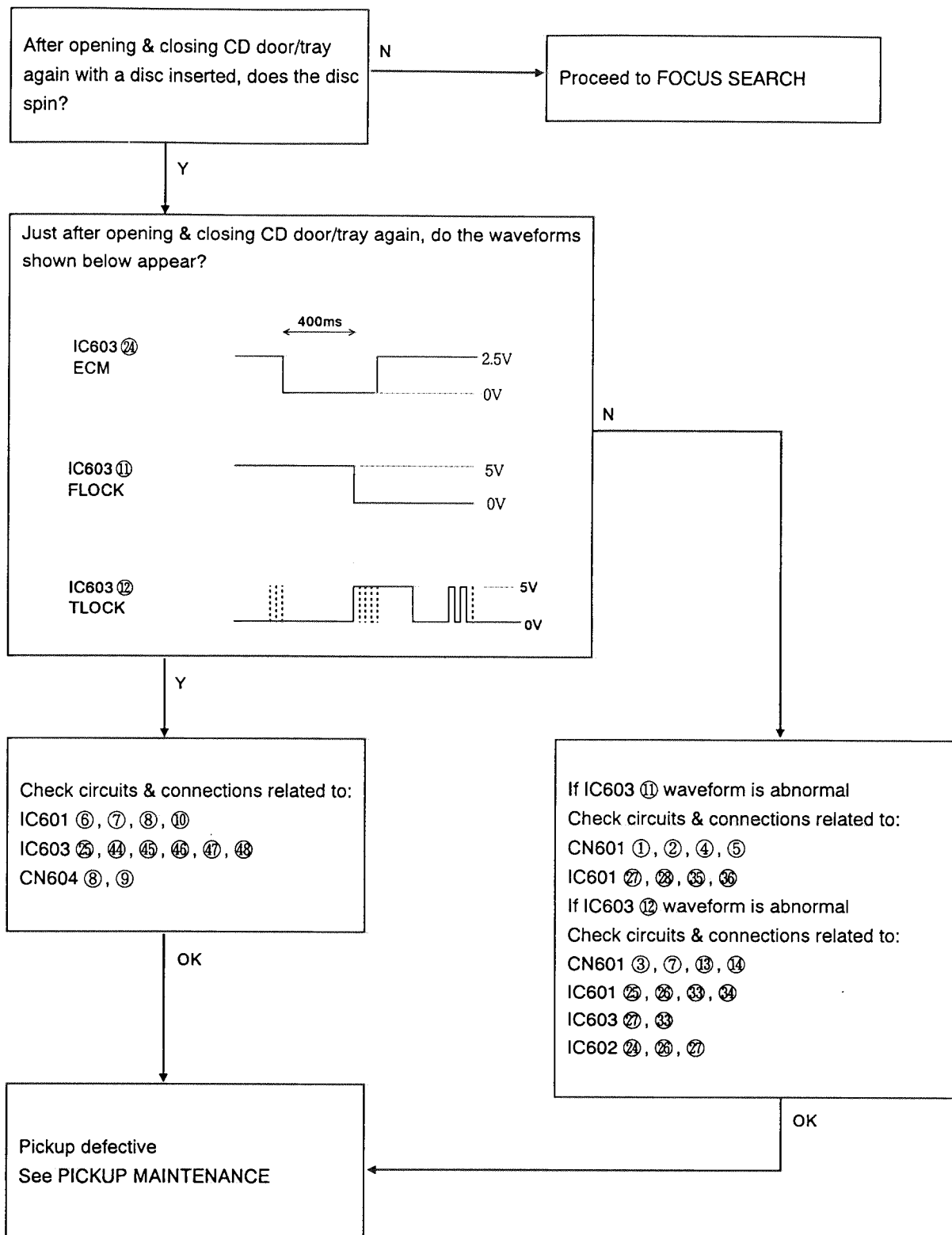


Error-identified times
↓Flow charts
↓Defective points
↓Error-identified times
↓Flow charts
↓Defective points
↓

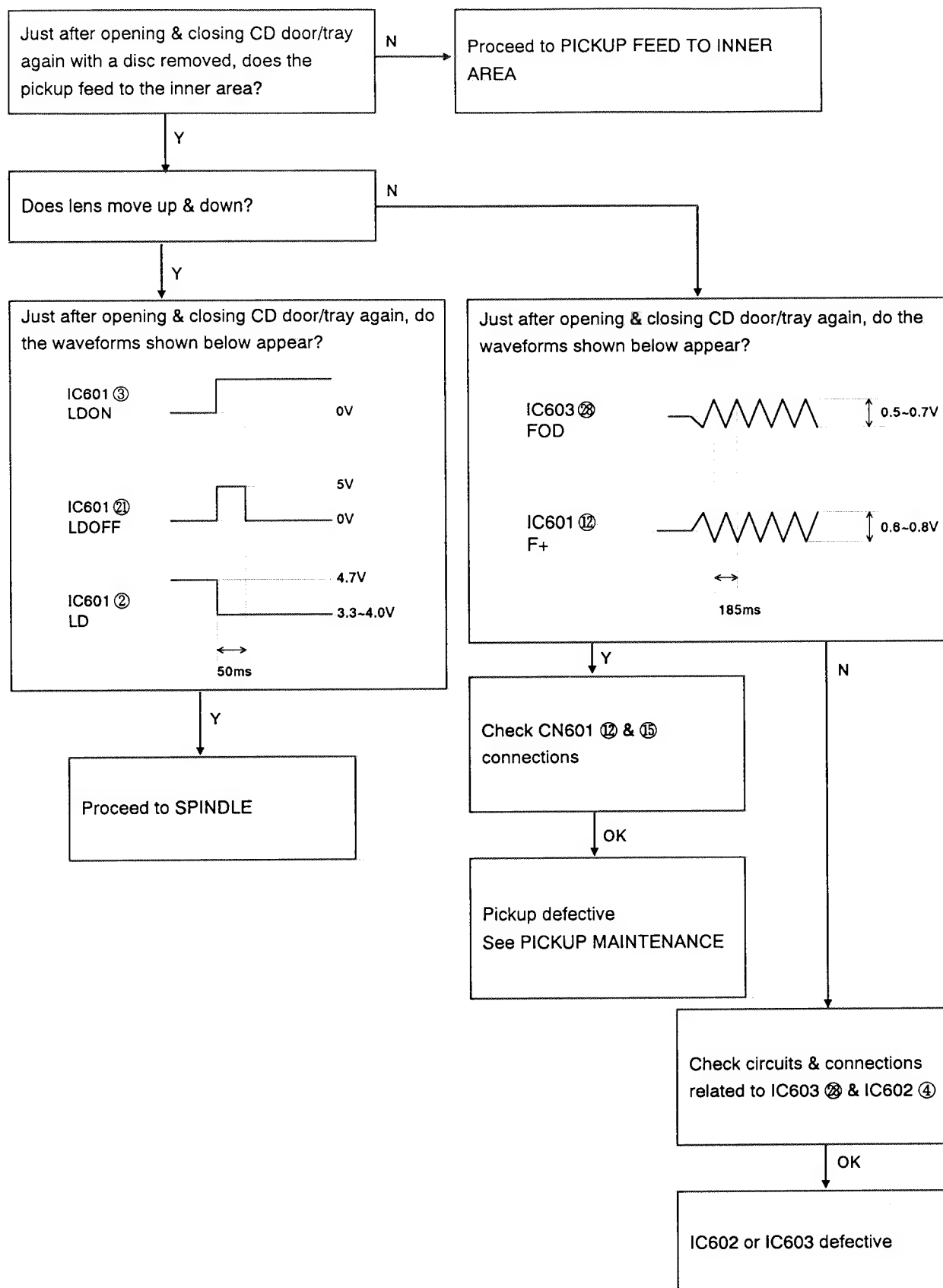
◆ General



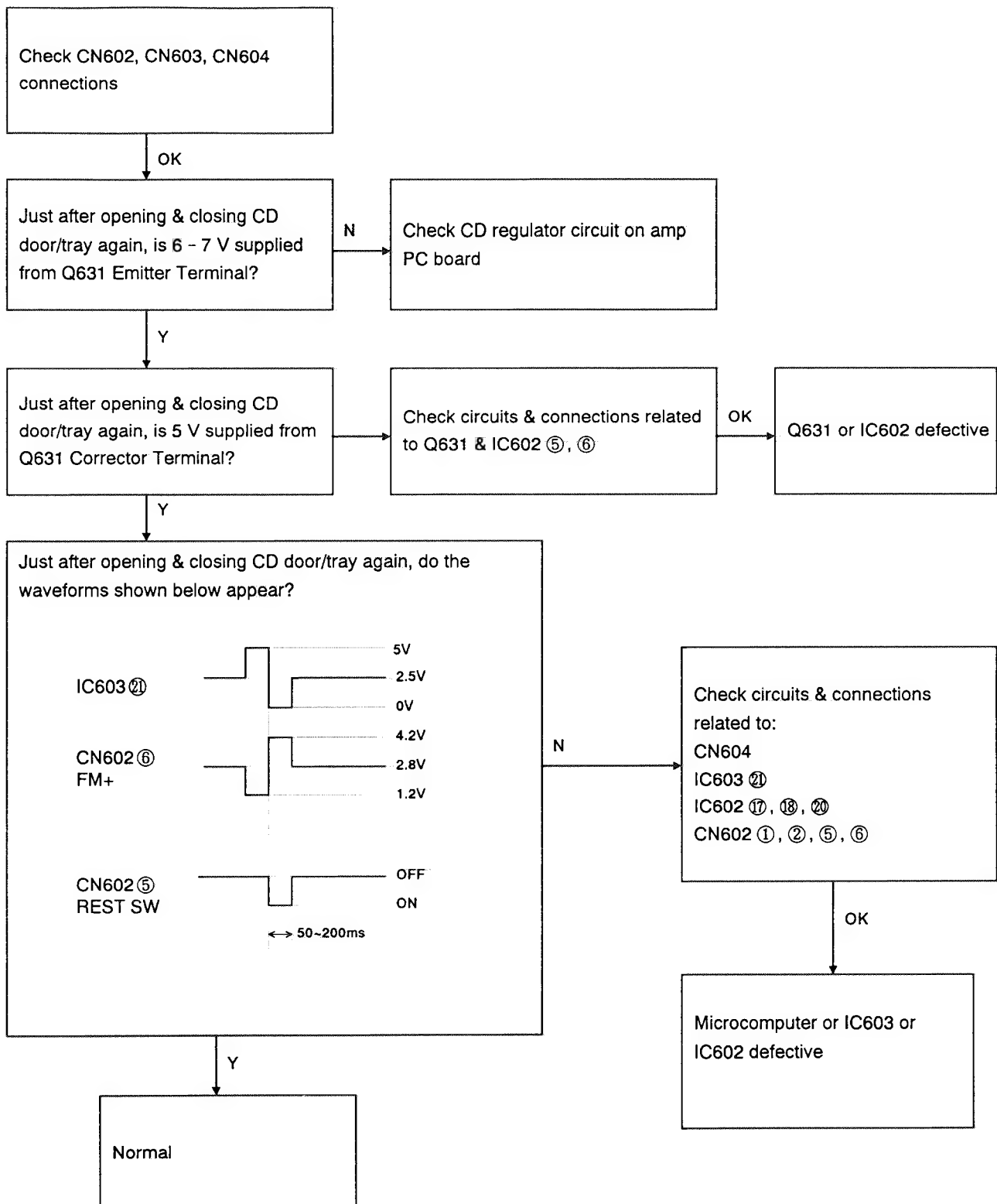
◆ Reading TOC



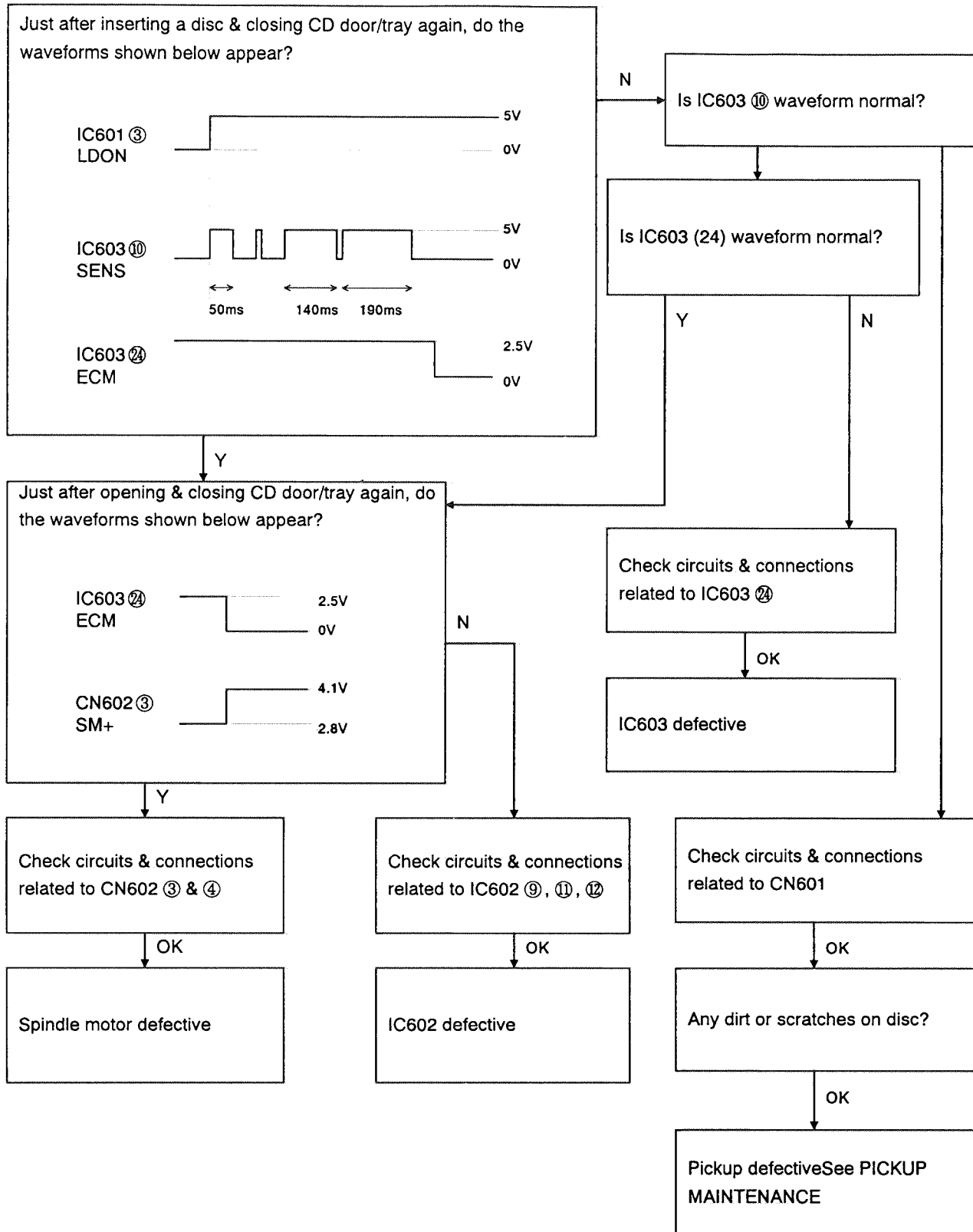
◆ Focus search



◆ Pickup feed to inner area



◆ Spindle



■ Description of Error Display/Indication

In addition to the normal functions, the service test modes have been incorporated in this model for confirmation and adjustment as described below:

1. Setting of the Service Test Mode

◆ Setting Method

After the power supply has been turned on, it is possible to set this model to the service test mode from the normal function conditions:

When the three **POWER**, **■/CLEAR** and **+10** buttons on the remote controller are pressed at the same time, this model will be set to the test mode. When this model has been set to the test mode, all of the LCDs will be turned on.

◆ Release of setting

When this model has been set to the test mode, press the three **POWER**, **■/CLEAR** and **+10** buttons at the same time, set this model to the backup mode or reset this model. Then, the test mode will be released.

2. Self-Diagnosis Function of CD Servo

When any error has occurred, either of the following error codes will be displayed depending on the contents of the error:

- 1) Err 1: Failure to turn on the reset switch (Internal peripheral feeding time-out)
- 2) Err 2: Failure to turn off the reset switch (Outer peripheral feeding time-out)
- 3) Err 3: Focusing failure
- 4) Err 4: TOC reading failure
- 5) Err 5: Failure to read the Q code continuously for 3 seconds
- 6) Err 6: Failure to locate the beginning of music when selecting a music

3. CD Running Mode

When the tower supply has been turned on, press the three **POWER**, **■/CLEAR** and **+10** buttons at the same time. Then, this model will be set to the CD running mode.

[Play the innermost and outermost peripherals of the respective CDs, and repeat this step for all of the ten discs].

Play TRACK 1 of DISC 1 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE →

Play TRACK 1 of DISC 2 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE → ↓

↓

Play TRACK 1 of DISC 10 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE →

Play TRACK 1 of DISC 1 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE →

Then, repeat the above steps up to DISC10.

When the [UP] or [DOWN] button has been pressed, the process from playing TRACK 1 of DISC through to [CLOSE] of DISC 10 will be counted and displayed as one time. The process halfway the step is disregarded and displayed accordingly. The counted data will be displayed regardless of whether this model is in action or in shutdown.

[Counting example]: 000055...

This indicates that the above process has been repeated fifty-five times. The counted data will be stored as far as this model has been set to the service test mode. When this model has been restarted, however, this counting operation will be started newly after resetting. This model will be reset when the test mode has been turned off.

The counting operation will be stopped immediately when any error has occurred.

4. When the self-diagnosis function of the CD changer is in trouble, the following items will be displayed (under the service test mode):

1. In case the function is not restored even after executing the retry action, then the motor will immediately be stopped and the solenoid be turned off.
2. Prior to restarting after occurrence of any error, initialize the self-diagnosis function (this model).

LED display

1. The error disc No. will be displayed to indicate in which disc the error has occurred.
2. In case the disc case is being transferred, to which disc (a target disc) the disc case is being transferred will be indicated.

LCD display

- OPEN : The [OPEN] switch is not turned on.
- CLOSE : The [CLOSE] switch is not turned off. In this case, the [CLOSE] switch would have been turned off by other than the [OPEN] action.
- UP : The [UP] switch is not turned on.
- dOWN : The [DOWN] switch is not turned on.
- SOL : The [UP/DOWN] switch has been turned off when turning on the [SOLENOID] switch.
- OP -- CL: Sequence error of loading plate photo sensor. OPEN → LOAD (CLOSE)
- CL -- UL: LOAD (CLOSE) → UNLOAD
- UL -- CL: UNLOAD → LOAD
- UnLOAD : A disc is judged to have been left in the PU during unloading by means of 8 cm PS.
- dCL : The [DISVC CASE] limit switch is not turned on.
- dCL -- F : The [DISC CASE] limit switch is not turned off.
- CASE : Counting error of [DISC CASE] photo sensor

6 Block Diagram

Integrated circuit

◆ IC701 (AN7345K) PB/REC EQ. AMP.

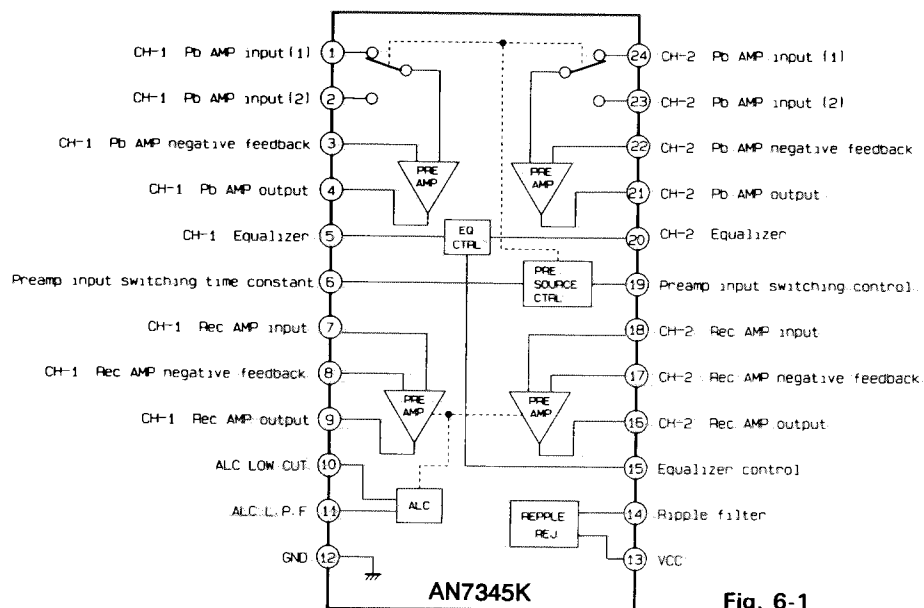


Fig. 6-1

◆ IC602 (BA6897FP) BTL DRIVE

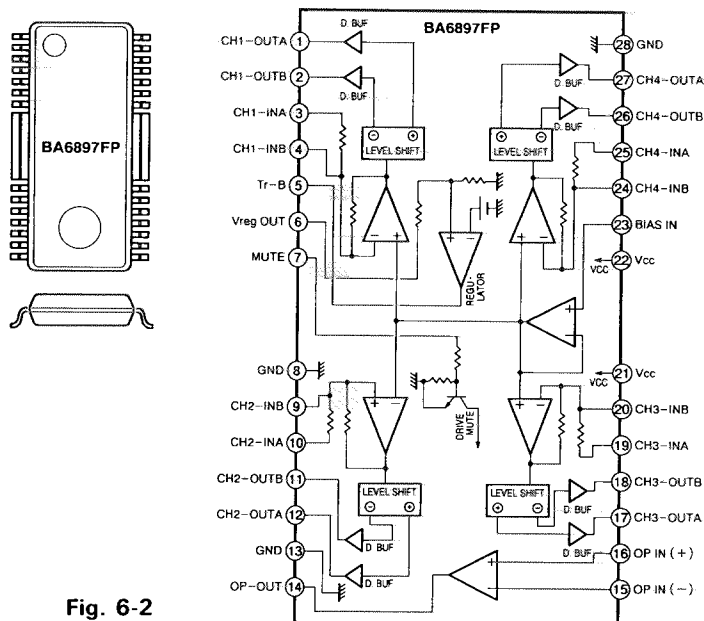


Fig. 6-2

◆ IC501 (BH3852S) VOLUME/TONE

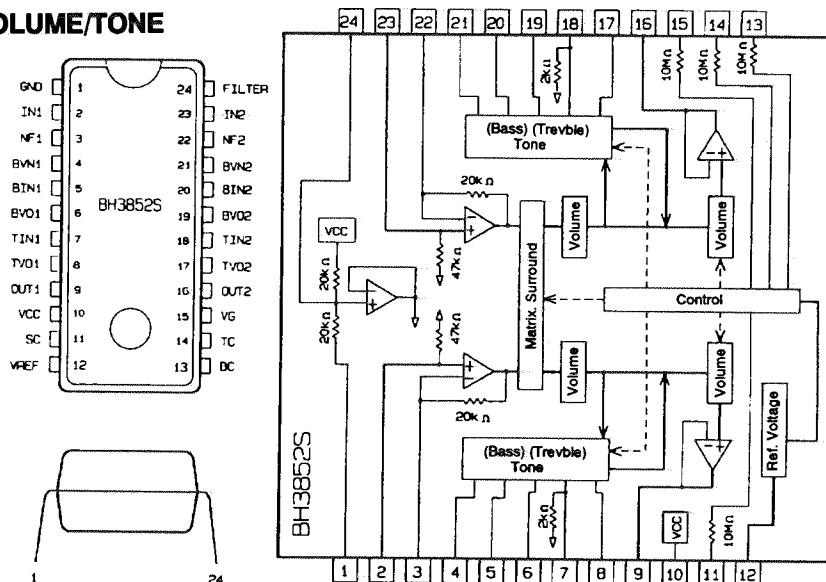


Fig. 6-3

◆ IC702 (BA3126N) R/P SWITCH

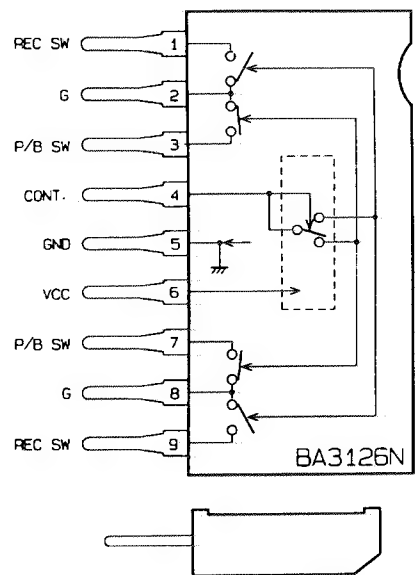


Fig. 6-4

◆ IC902 (BU4094BC) PORT EXPANDER

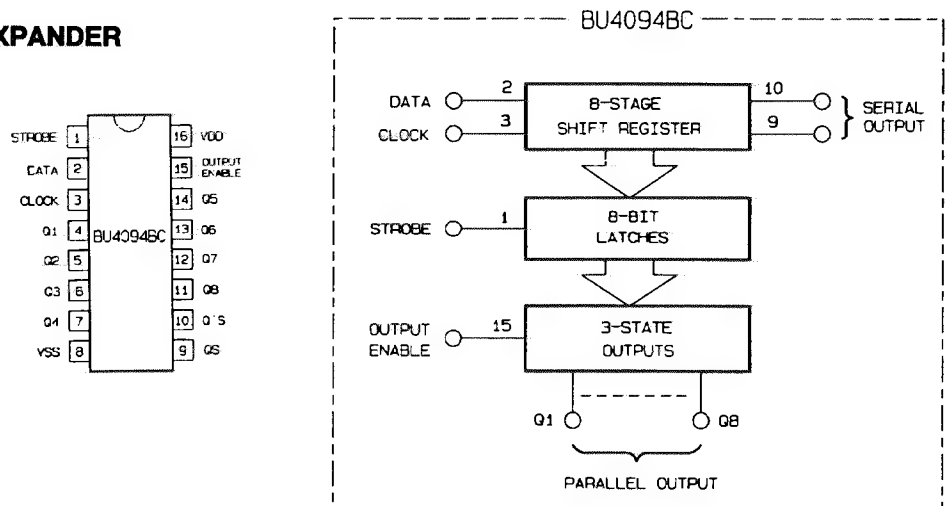


Fig. 6-5

◆ IC601 (AN8806SB) RF AMP.

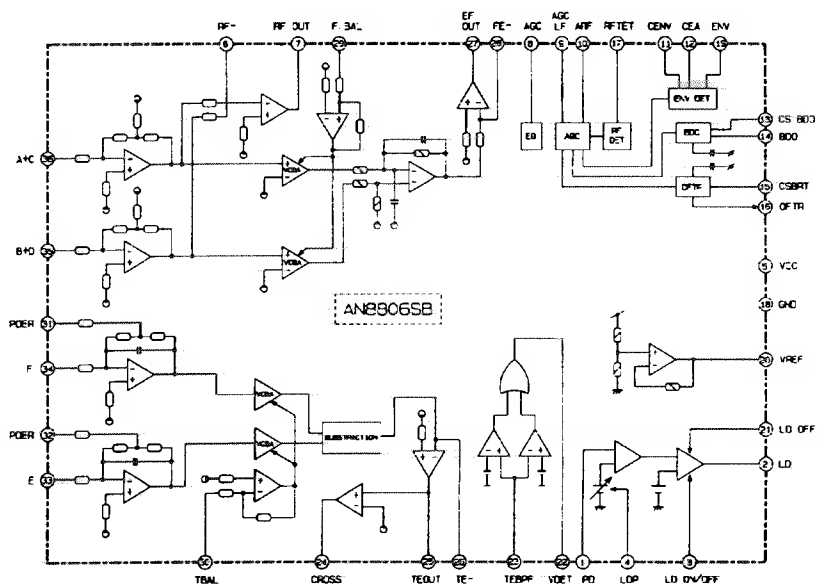


Fig. 6-6

◆ IC603 (MN35510)
DIGITAL SERVO

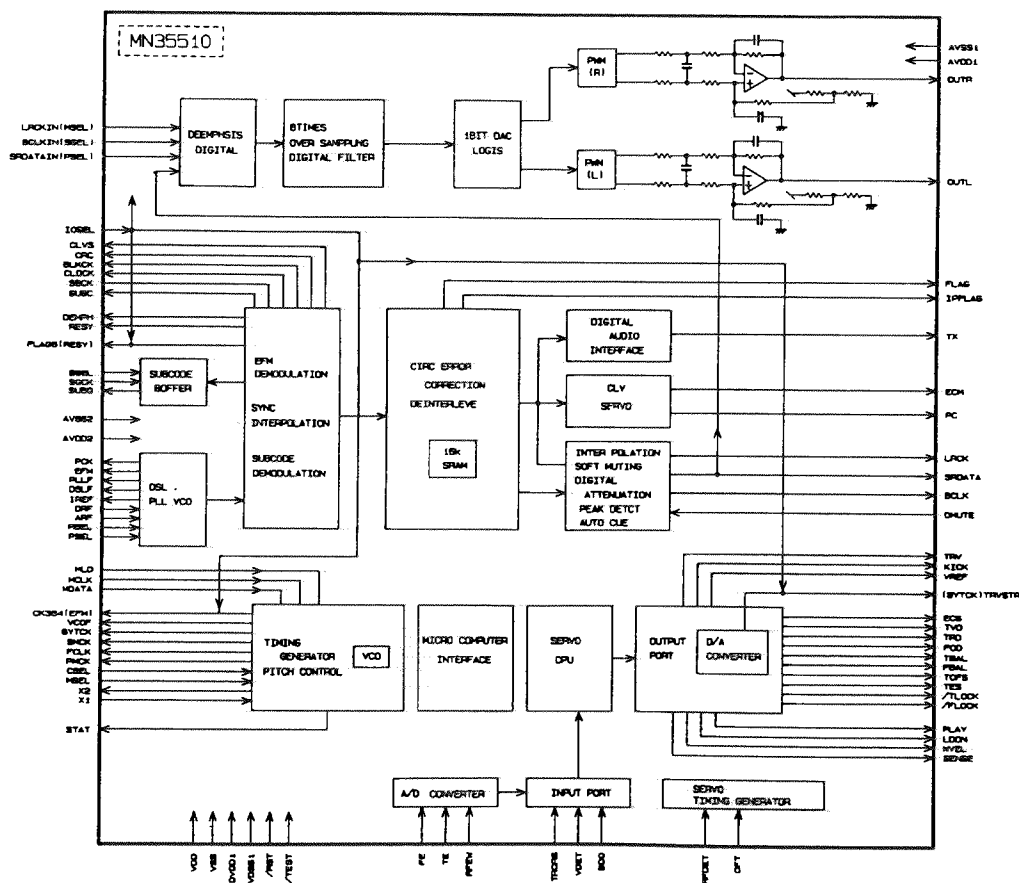


Fig. 6-7

◆ IC801 (NJM4580L) BB AMP.

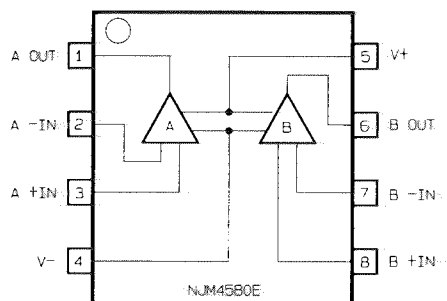


Fig. 6-8

◆ IC2 (TA2008N)

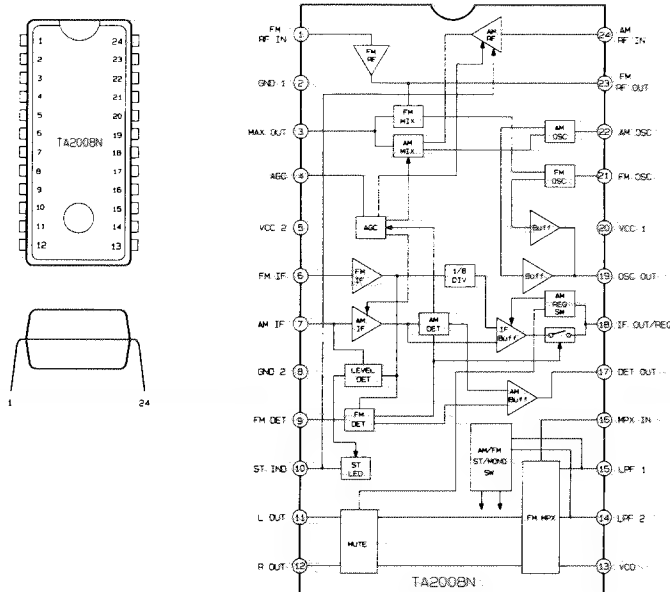


Fig. 6-9

◆ IC3 (LC72136)

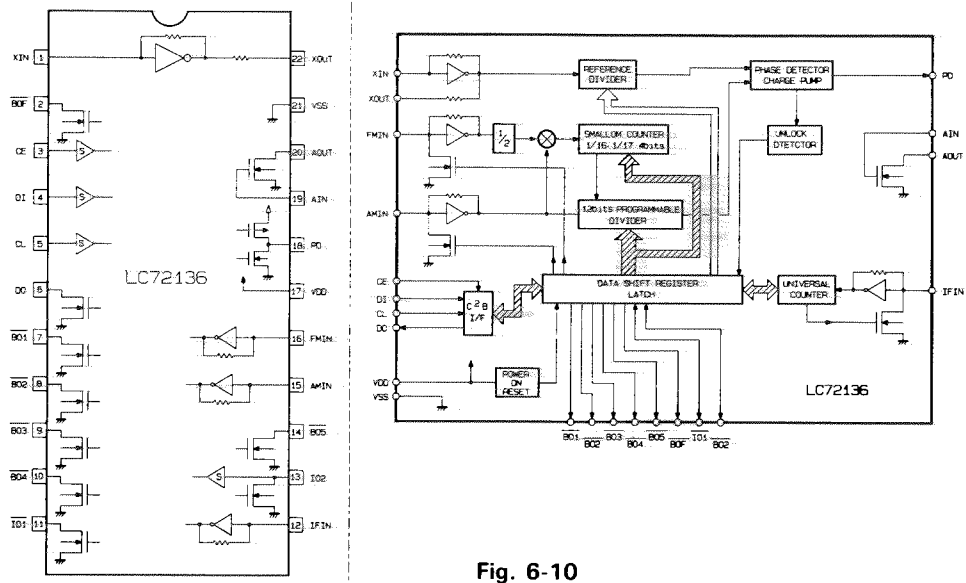


Fig. 6-10

◆ IC601 (LA4705NA) POWER AMP.

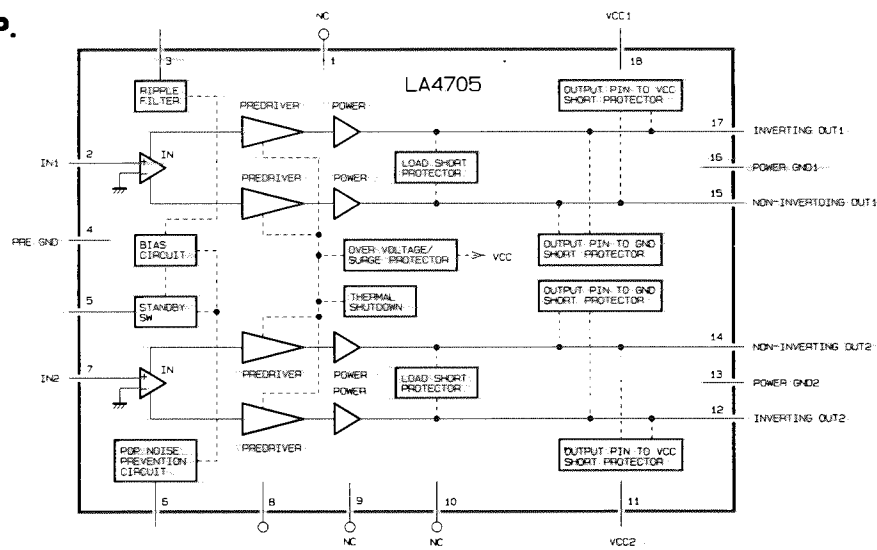


Fig. 6-11

◆ IC951/952 (TA8409S)

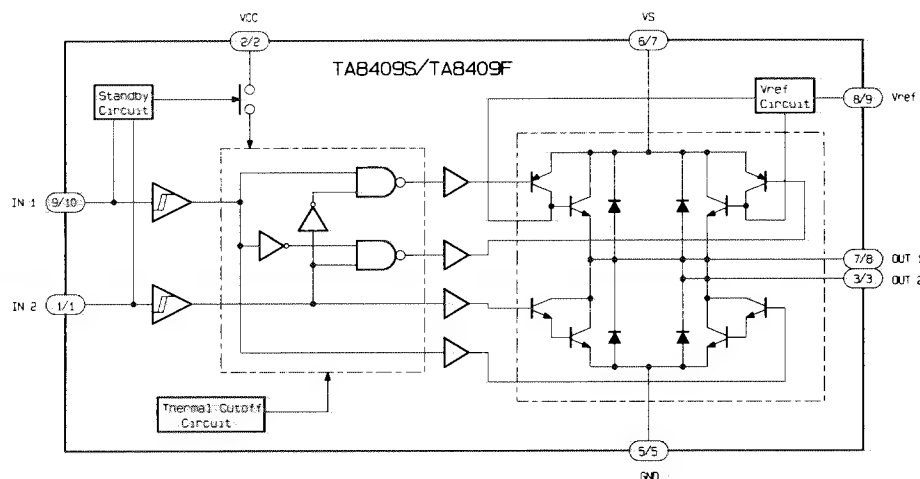


Fig. 6-12

IC901 UPD78064GF system microprocessor

No.	NAME	I/O	Function
1	SDATA	I/O	Serial data (TUNER PLL/EXPANDER)
2	SCK	O	Serial lock (TUNER PLL/EXPANDER)
3	SUBO	I	CD Q Code data
4	-	O	Not usable
5	SQCK	O	Synchronizing clock of CD Q code data
6	IC	-	Connect it to Vss.
7	X2	-	Main system clock, 4.19MHz
8	X1	I	Same as above.
9	Vdd	-	Power supply
10	XT1	I	Subsystem clock, 32.768kHz
11	XT2	-	Same as above.
12	RESET	I	Reset
13	DC PS	I	Disc case P. sensor
14	LP PS	I	Loading plate P. sensor
15	8cm PS	I	8cm P. sensor
16	REM	I	Remote controller
17	BEAT	O	Main clock selector
18	BJP	I	Decision of backup power supply (H=Backup)
19	+BCTL	O	Switched 5V control (H=5V breaking)
20	REC SW	I	[REC] switch
21	F. GD	O	Function GD ON/OFF
22	POUT	O	Power ON/OFF
23	SMUTE	O	System muting
24	VOL	O	Volume control (PWM)
25	BASS	O	Base control (PWM)
26	TRE	O	Treble control (PWM)
27	AVas	-	AD converter GND
28	KEY 0	I	Body key input 0 (including version selection)
29	KEY 1	I	Body key input 1 (including version selection)
30	KEY 2	I	Body key input 2 (including version selection)
31	REST	I	CD rest/changer disc case limit switch
32	LOAD	I	OPEN/CLOSE/UNLOAD limit switch
33	UP/DOWN	I	Drive unit UP/DOWN/CHUCK (CHECK) switch
34	TAPE	I	A PLAY/B PLAY switch
35	SAFETY 1	I	Abnormal voltage detection
36	AVdd	-	Same potential of AD converter power supply and Vdd
37	AVref	-	Reference voltage of AD converter. It is broken under [SLOW] mode.
38	MPX	I	FM stereo detection (L=Stereo)
39	PERIOD	O	TUNER PLL strobe signal
40	Vas	-	GND
41	LED 1	O	Disc LED 1 (H=ON)
42	LED 2	O	Disc LED 2 (H=ON)
43	LED 3	O	Disc LED 3 (H=ON)
44	LED 4	O	Disc LED 4 (H=ON)
45	LED 5	O	Disc LED 5 (H=ON)
46	LED 6	O	Disc LED 6 (H=ON)
47	LED 7	O	Disc LED 7 (H=ON)
48	LED 8	O	Disc LED 8 (H=ON)
49	LED 9	O	Disc LED 9 (H=ON)
50	LED 10	O	Disc LED 10 (H=ON)

No.	NAME	I/O	Function
51	COM 0	O	LCD remote controller 0
52	COM 1	O	LCD remote controller 1
53	COM 2	O	LCD remote controller 2
54	COM 3	O	LCD remote controller 3
55	BIAS	-	LCD bias voltage
56	VLC 0	-	LCD bias voltage BIAS \ VLC 0 \ VLC 1 \ VLC 2
57	VLC 1	-	LCD bias voltage
58	VLC 2	-	LCD bias voltage
59	Vas	-	GND
60	S 0	O	LCD segment 0
61	S 1	O	LCD segment 1
62	S 2	O	LCD segment 2
63	S 3	O	LCD segment 3
64	S 4	O	LCD segment 4
65	S 5	O	LCD segment 5
66	S 6	O	LCD segment 6
67	S 7	O	LCD segment 7
68	S 8	O	LCD segment 8
69	S 9	O	LCD segment 9
70	S 10	O	LCD segment 10
71	S 11	O	LCD segment 11
72	S 12	O	LCD segment 12
73	S 13	O	LCD segment 13
74	S 14	O	LCD segment 14
75	S 15	O	LCD segment 15
76	S 16	O	LCD segment 16
77	S 17	O	LCD segment 17
78	S 18	O	LCD segment 18
79	S 19	O	LCD segment 19
80	S 20	O	LCD segment 20
81	S 21	O	LCD segment 21
82	S 22	O	LCD segment 22
83	NC	O	NC
84	STAT	O	
85	XRESET	O	
86	MCLK	O	
87	MDATA	O	
88	MLD	O	
89	SCD	I	Detection of CD abnormal voltage
90	LM F	O	1) FORWARD 0) REVERSE
91	LM R	O	
92	UDM UP	O	PU UNIT 1) UP 0) DW CASE 1) DW 0) UP
93	UDM DOWN	O	
94	LM V	O	Loading motor speed
95	SOL	O	Solenoid ON/OFF (H=ON)
96	PIN	I	[POWER] key
97	R. BIAS	O	REC bias ON/OFF
98	AC/DC	I	Decision of AC/DC power supply
99	SAFETY 2	I	Abnormal voltage detection
100	LATCH	O	Expander latch

■ CD player diagram

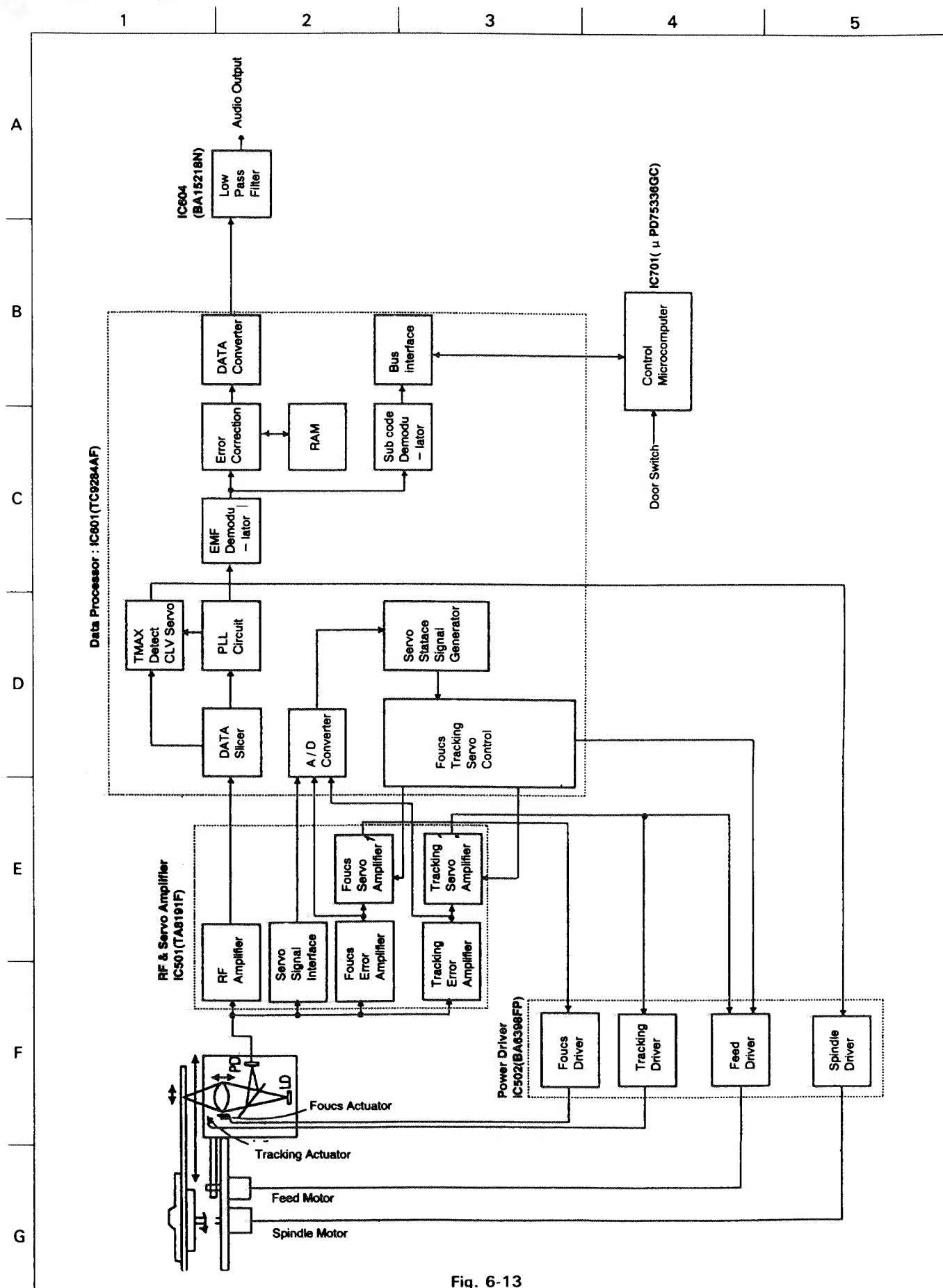


Fig. 6-13

■ Signal circuit diagram

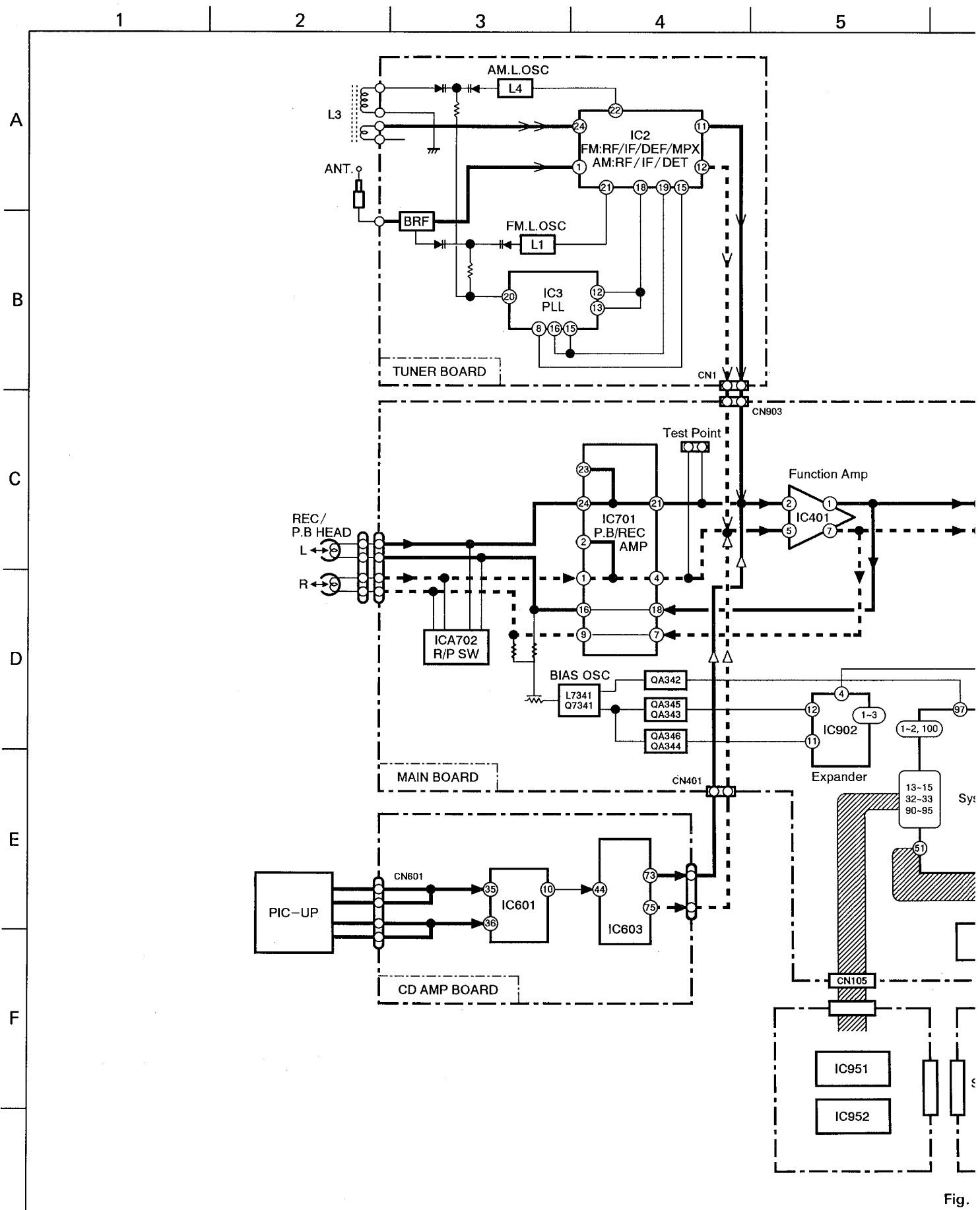


Fig.

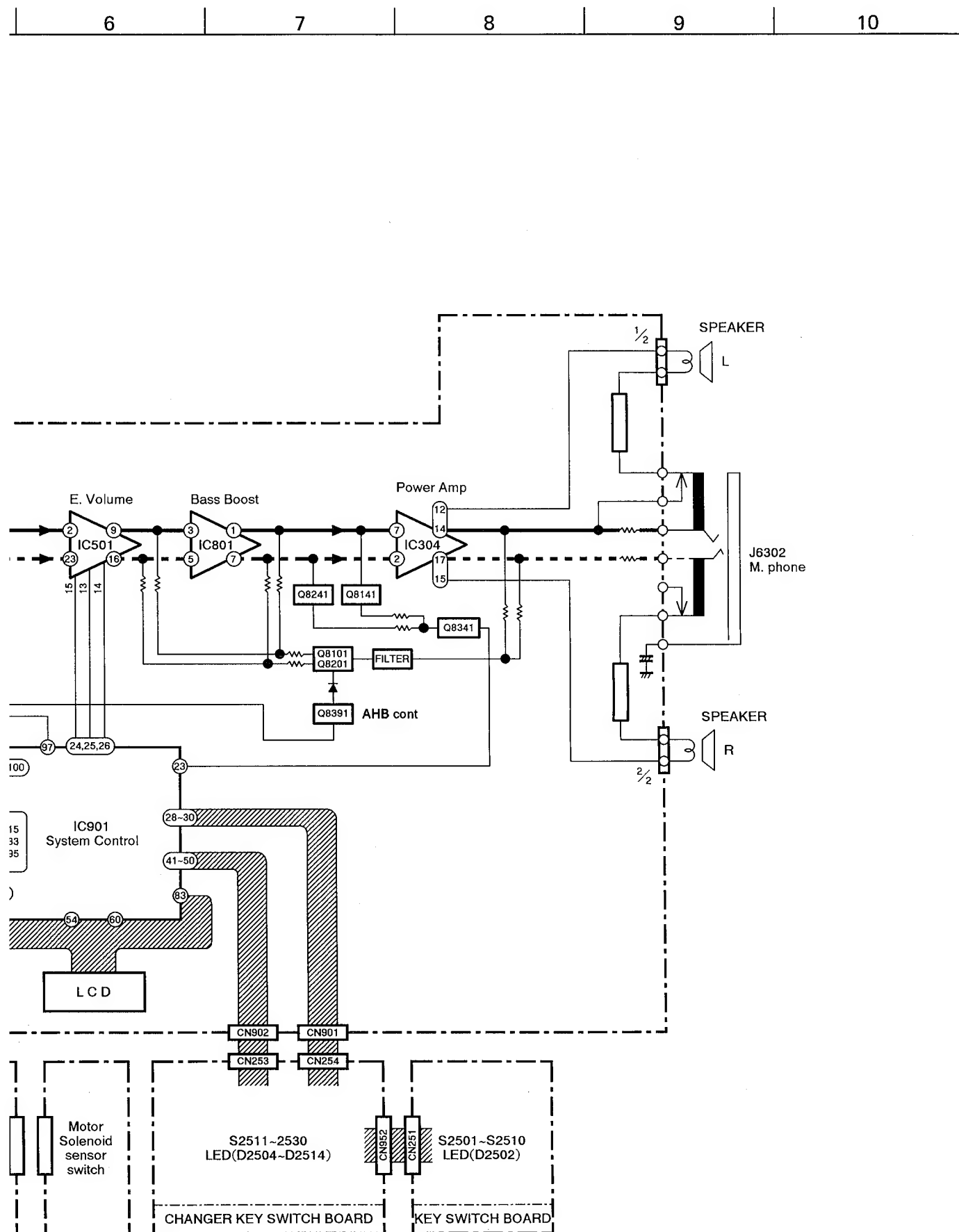


Fig. 6-14

PC-XC70 system diagram

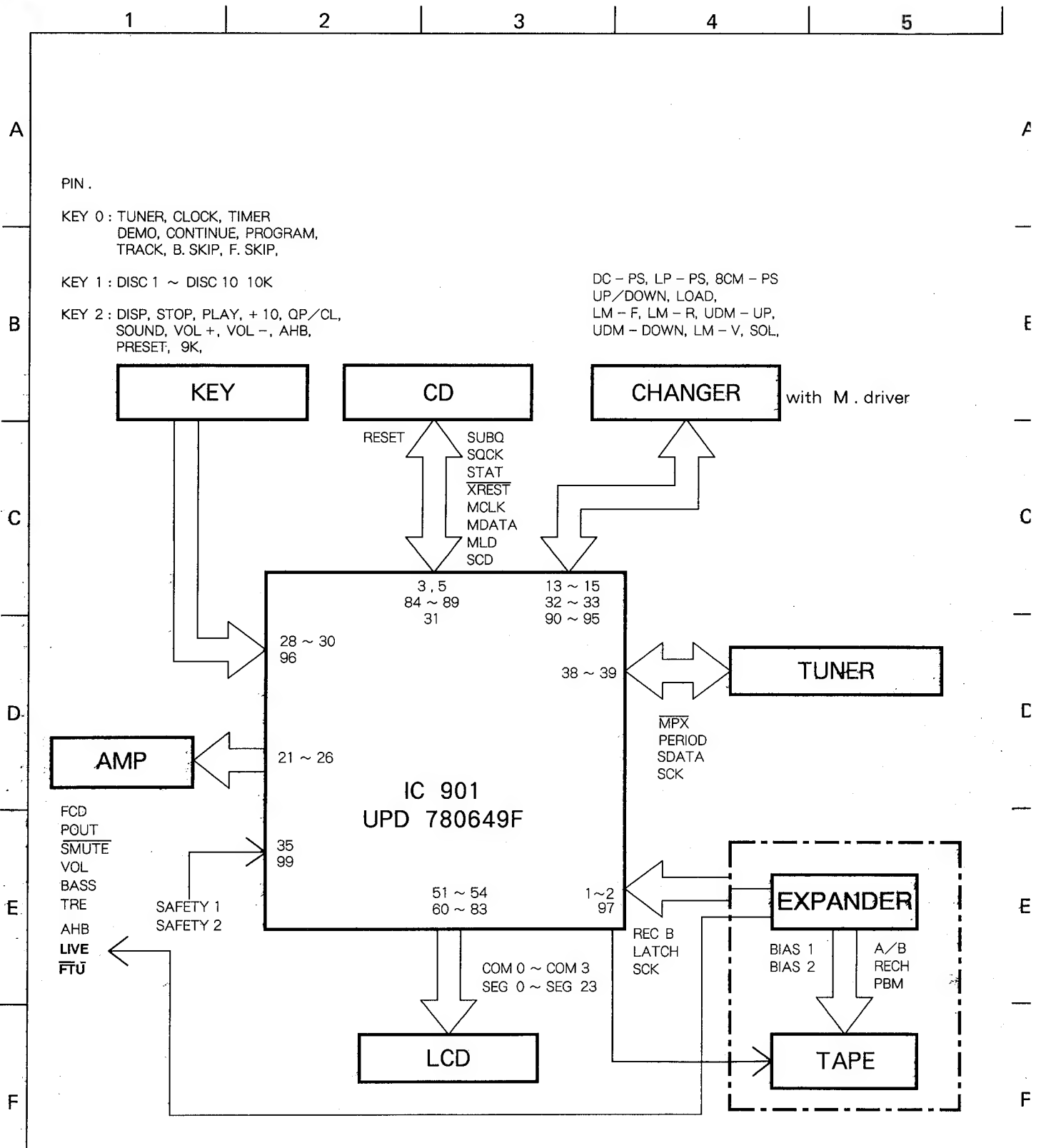


Fig. 6-15

7 Standard Circuit Diagram ■ Changer driver circuit

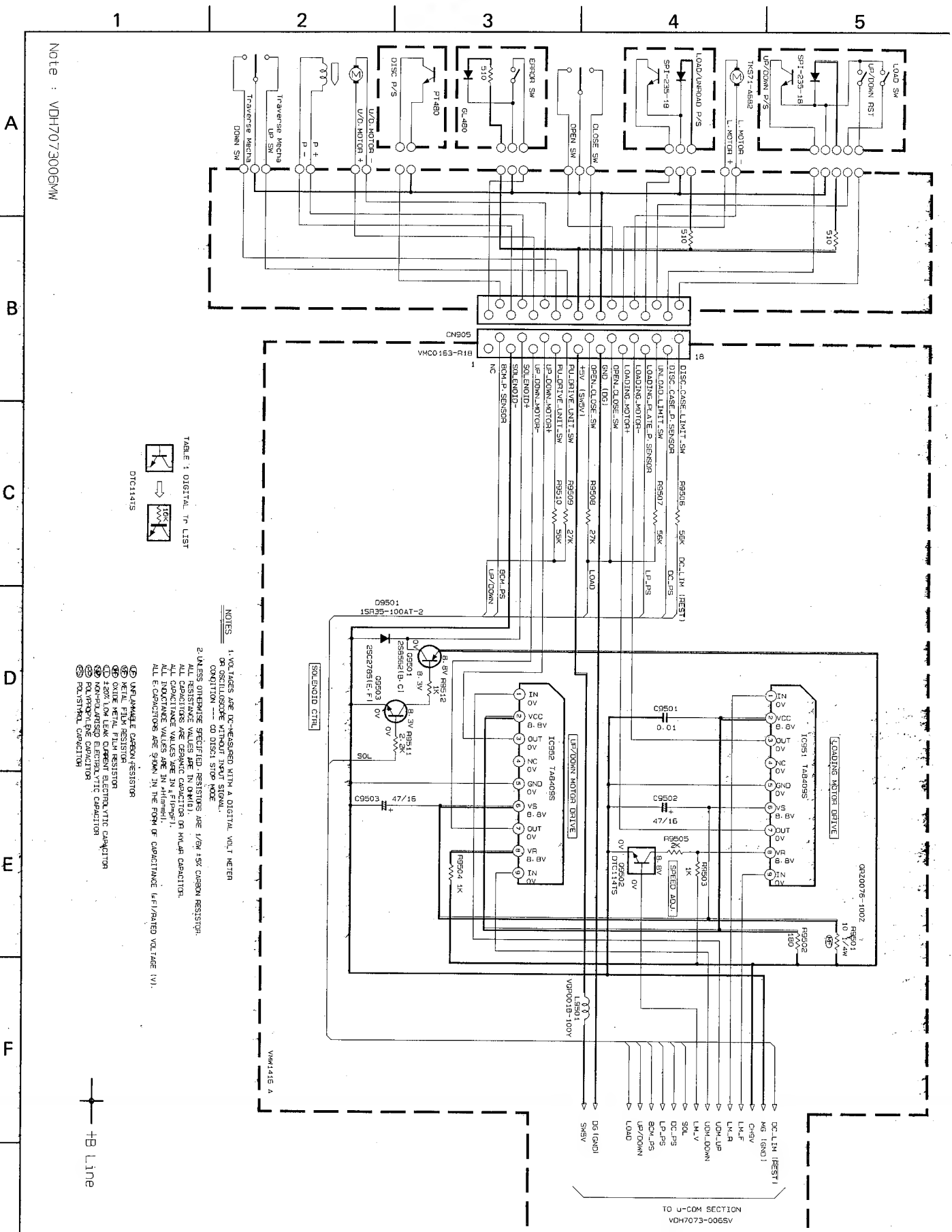


Fig. 7-1

To G-6
on page 63

FIG. 7-5

NOTE

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD DISC STOP MODE VOL 9 SOUND FLAT AHB ON (INPUT AC)
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHMS (Ω). ALL CAPACITANCE VALUES ARE IN nF (pF). ALL INDUCTANCE VALUES ARE IN mH (mH). ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (nF/pF/RATED VOLTAGE (V)). ALL DIODES ARE 1SS254 OR HSS104TJ.

TO G-1 on page 66 (Fig 7-6)

TO F-4 on page 66 (Fig 7-5)

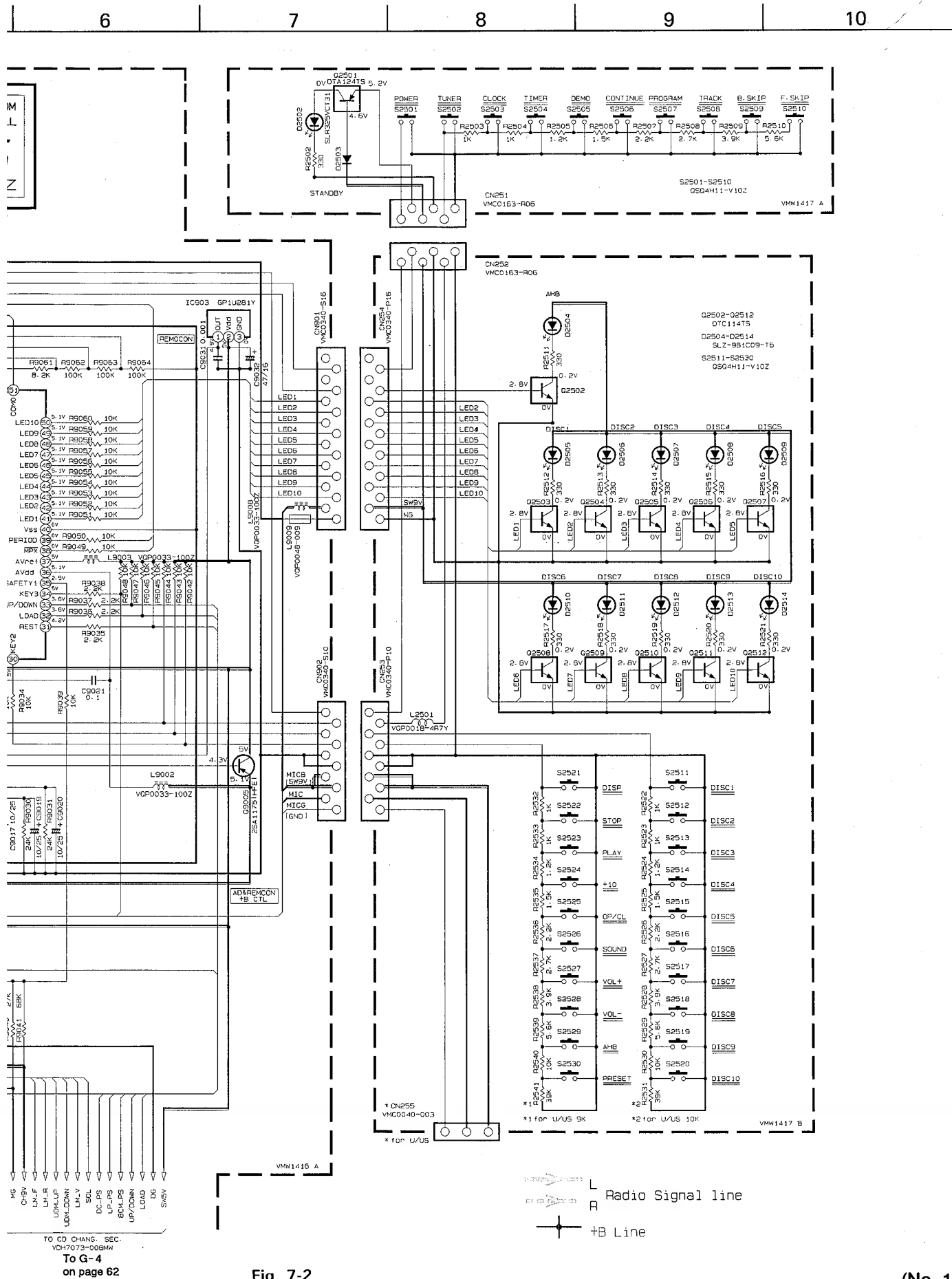
TO D-1 on page 64

TO F-2 on page 64

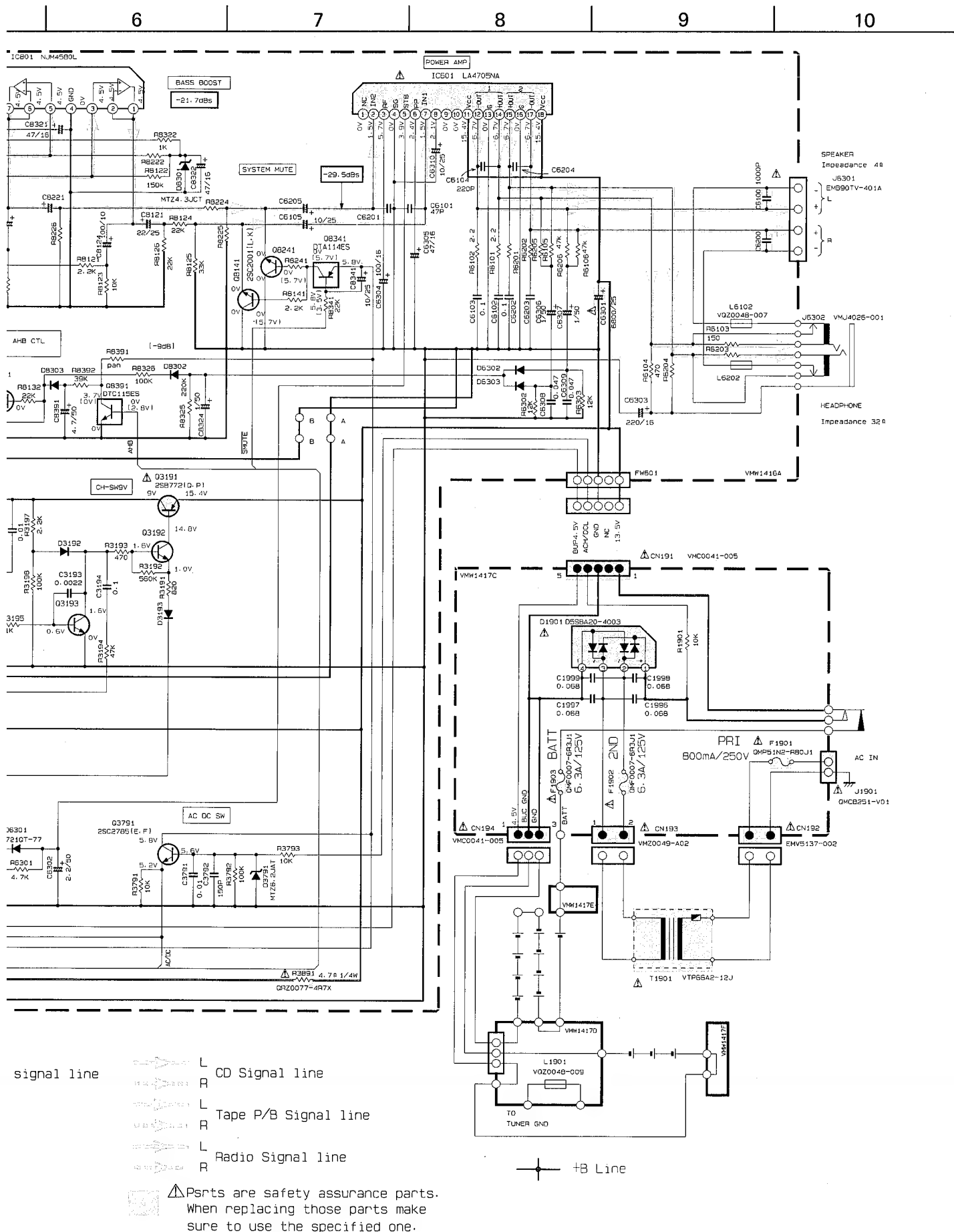
TO AMP SEC. VDH7073-005AV

TO B-10 on page 65

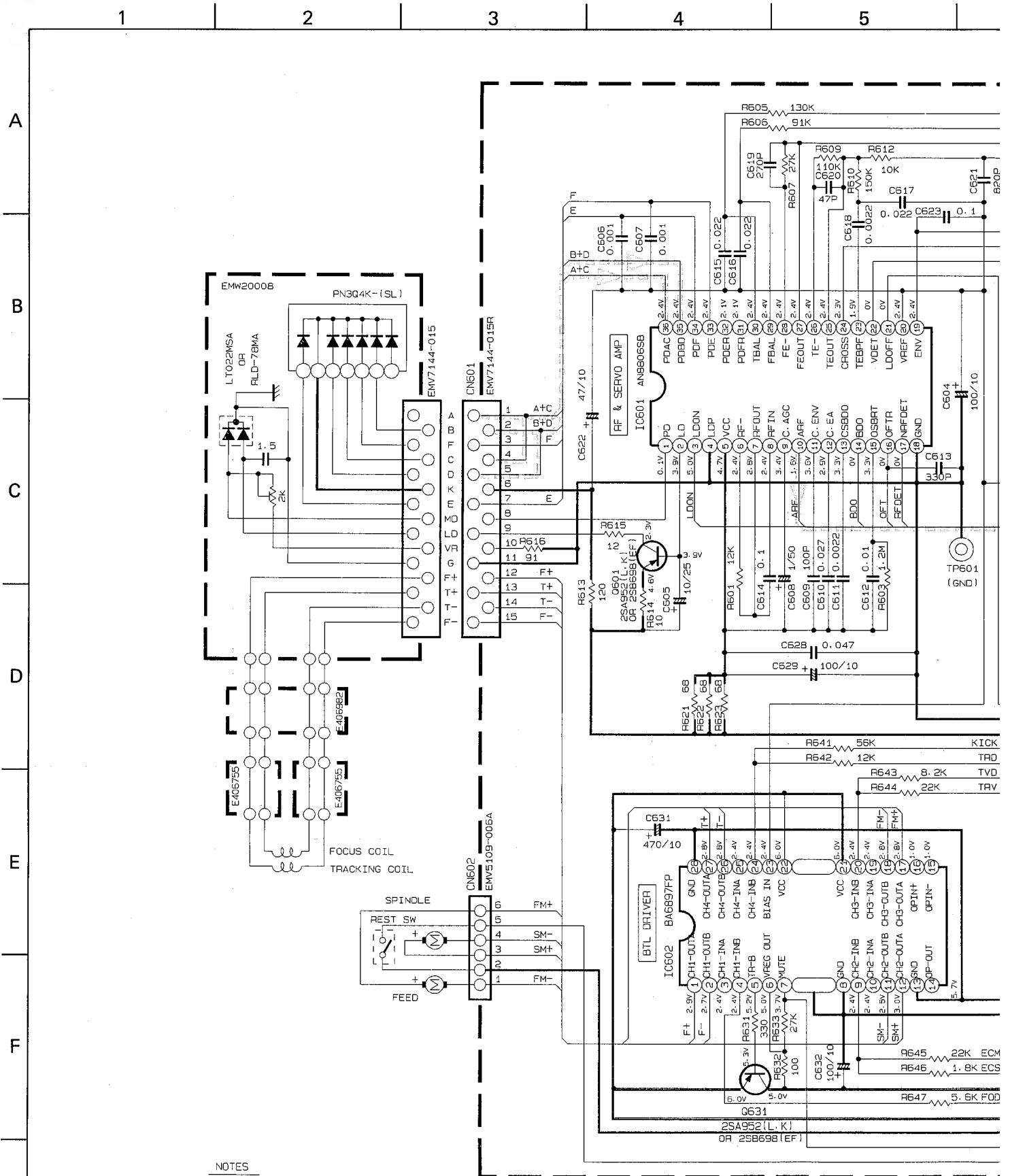
Note : VDH7073006SV



(No. 1997) 64



CD amplifier circuit



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W $\pm 5\%$ CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN P F (P=pF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).

Note
VDH103100CW
(MATSITA-IC)

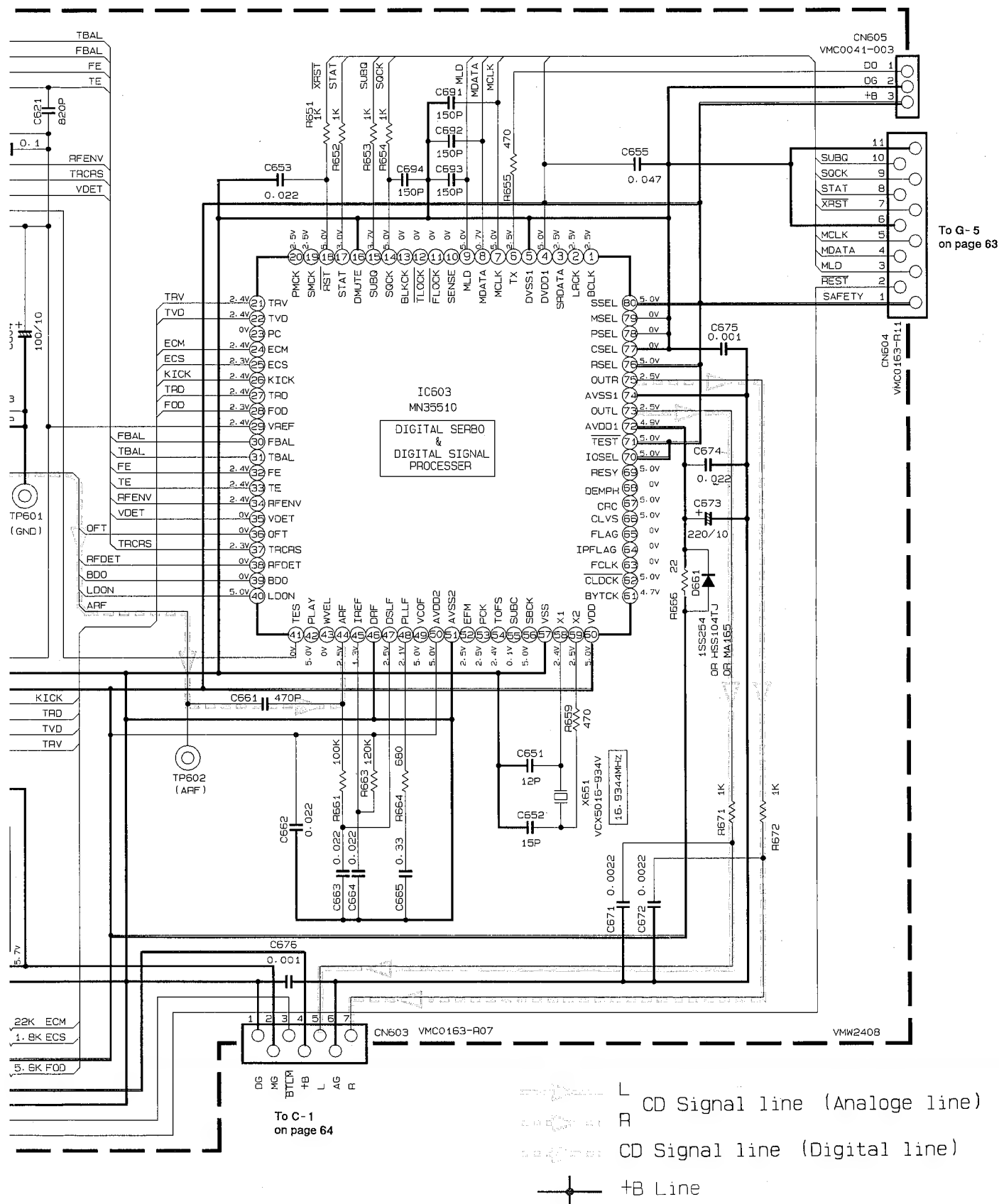
6

7

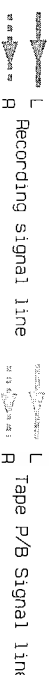
8

9

10



WISCONSIN
SOUTH
WEST

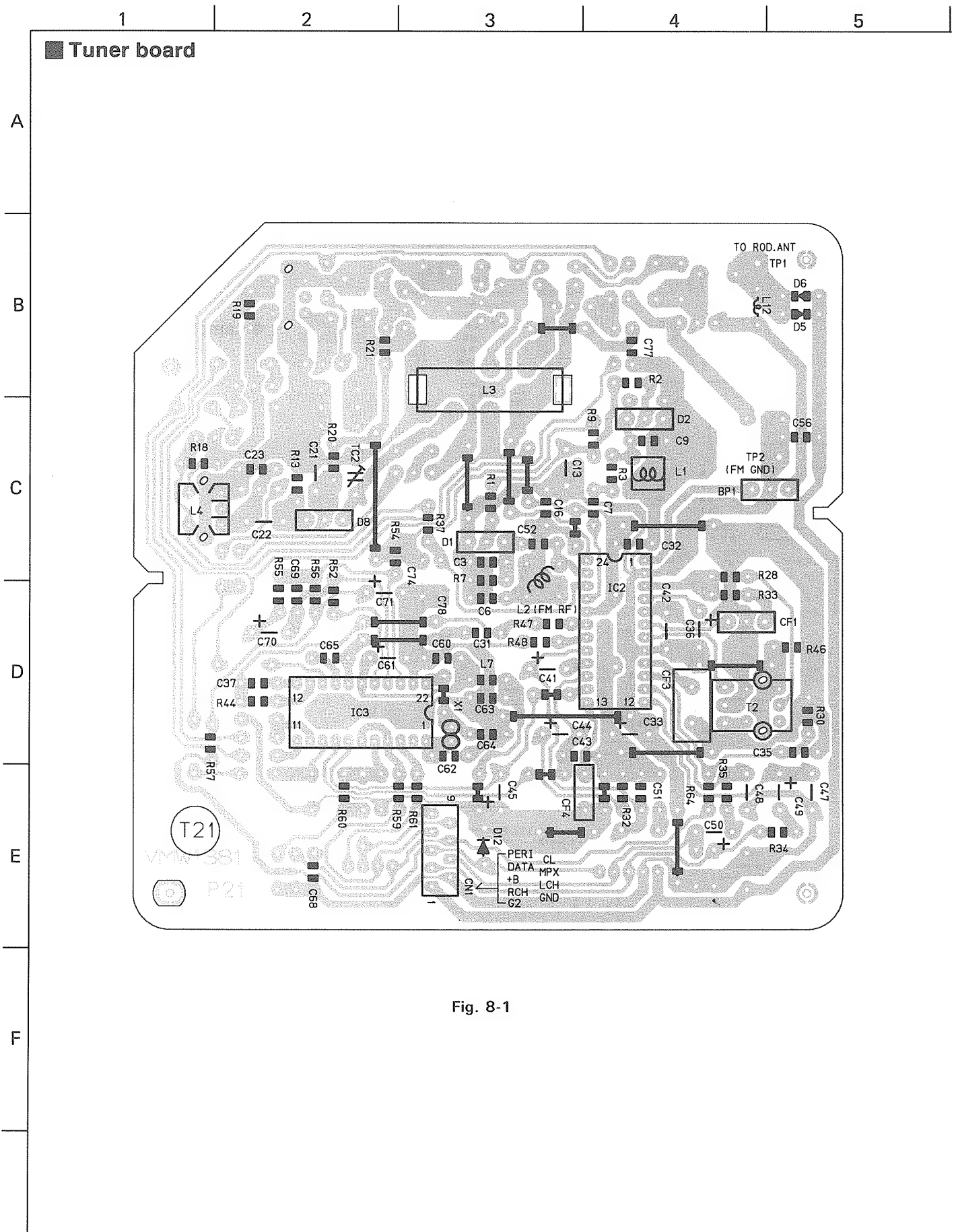


(No. 1997) 66



Note
VDH7073006TW

8 Location of P. C. Board Parts and Parts List



● Tuner board parts list

BLOCK NO. 02						BLOCK NO. 02					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BP	1	VBP4W3B-007Z	P FILTER	BPF		L	7	VGP0018-221	INDUCTOR	
	C	3	QCSB1HK-3R6Y	C.CAPACITOR	5.6PF 10% 50V		L	12	V03047-16	RF COIL	
	C	6	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		PL	901	VGZ0001-060	LAMP	
	C	7	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		R	1	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W
	C	9	QCSB1HJ-110Y	C.CAPACITOR	11PF 5% 50V		R	2	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W
	C	13	QFV71HJ-6832M	FILM CAPACITOR	.068MF 5% 50V		R	3	QRD161J-220	CARBON RESISTOR	22 5% 1/6W
	C	16	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	7	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W
	C	21	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V		R	9	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	22	QFP41HJ-431	PP.CAPACITOR	430PF 5% 50V		R	13	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W
	C	23	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		R	18	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	31	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	20	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	32	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	28	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W
	C	33	QET41AM-107	E.CAPACITOR	100MF 20% 10V		R	30	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W
	C	35	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	32	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W
	C	36	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V		R	33	QRD161J-101	CARBON RESISTOR	100 5% 1/6W
	C	37	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	34	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W
	C	41	QET41CM-106	E.CAPACITOR	10MF 20% 16V		R	35	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W
	C	42	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V		R	37	QRD161J-560	CARBON RESISTOR	56 5% 1/6W
	C	43	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	44	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
	C	44	QET41HM-104N	E.CAPACITOR	.10MF 20% 50V		R	46	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W
	C	45	QET41HM-474	E.CAPACITOR	.47MF 20% 50V		R	47	QRD161J-471	CARBON RESISTOR	470 5% 1/6W
	C	47	QCC31EM-1532V	C.CAPACITOR	.015MF 20% 25V		R	48	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	48	QCC31EM-1532V	C.CAPACITOR	.015MF 20% 25V		R	52	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W
	C	49	QET41HM-104N	E.CAPACITOR	.10MF 20% 50V		R	54	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W
	C	50	QET41HM-104N	E.CAPACITOR	10MF 20% 50V		R	55	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	51	QCB81HK-331Y	C.CAPACITOR	330PF 10% 50V		R	56	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W
	C	52	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	57	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	56	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	59	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	60	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	60	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	61	QET41AM-107	E.CAPACITOR	100MF 20% 10V		R	61	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	62	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		R	64	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W
	C	63	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		T	2	V07A21-112	IFT	
	C	64	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		TC	2	QAT3722-200ZM	T-CAPACITOR	MW RF
	C	65	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		TP	1	VNZ0015-002	POST PIN	TO ROD ANT
	C	68	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V		TP	2	VNZ0015-002	POST PIN	GND
	C	69	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V		X	1	VCX5044-001	CRYSTAL	
	C	70	QETC1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V						
	C	71	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V						
	C	77	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V						
	CF	1	VCF2M3B-106	C FILTER							
	CF	3	VCF1Z22-117Z	C FILTER							
	CF	4	CMU2-456A05	CERA LOCK							
	CN	1	VNC0163-009	CONNECTOR	TO MAIN						
	D	1	SVC203SPA-AB-AL	VARI CAP							
	D	2	SVC203SPA-AB-AL	VARI CAP							
	D	5	1SS133	SI DIODE							
	D	6	1SS133	SI DIODE							
	D	8	SVC344-AA	VARI CAP							
	D	12	DSK10C-E	DIODE							
	IC	2	TA2008N	IC							
	IC	3	LC72136	IC							
	L	1	VQF1B20-019	OSC COIL	FM OSC						
	L	2	VQC1505-002T	RF COIL	FM RF						
	L	3	VQB008M-504	BAR ANTENNA	MW RF						
	L	4	VQM7U02-404	OSC COIL(MW)	MW OSC						

Main board

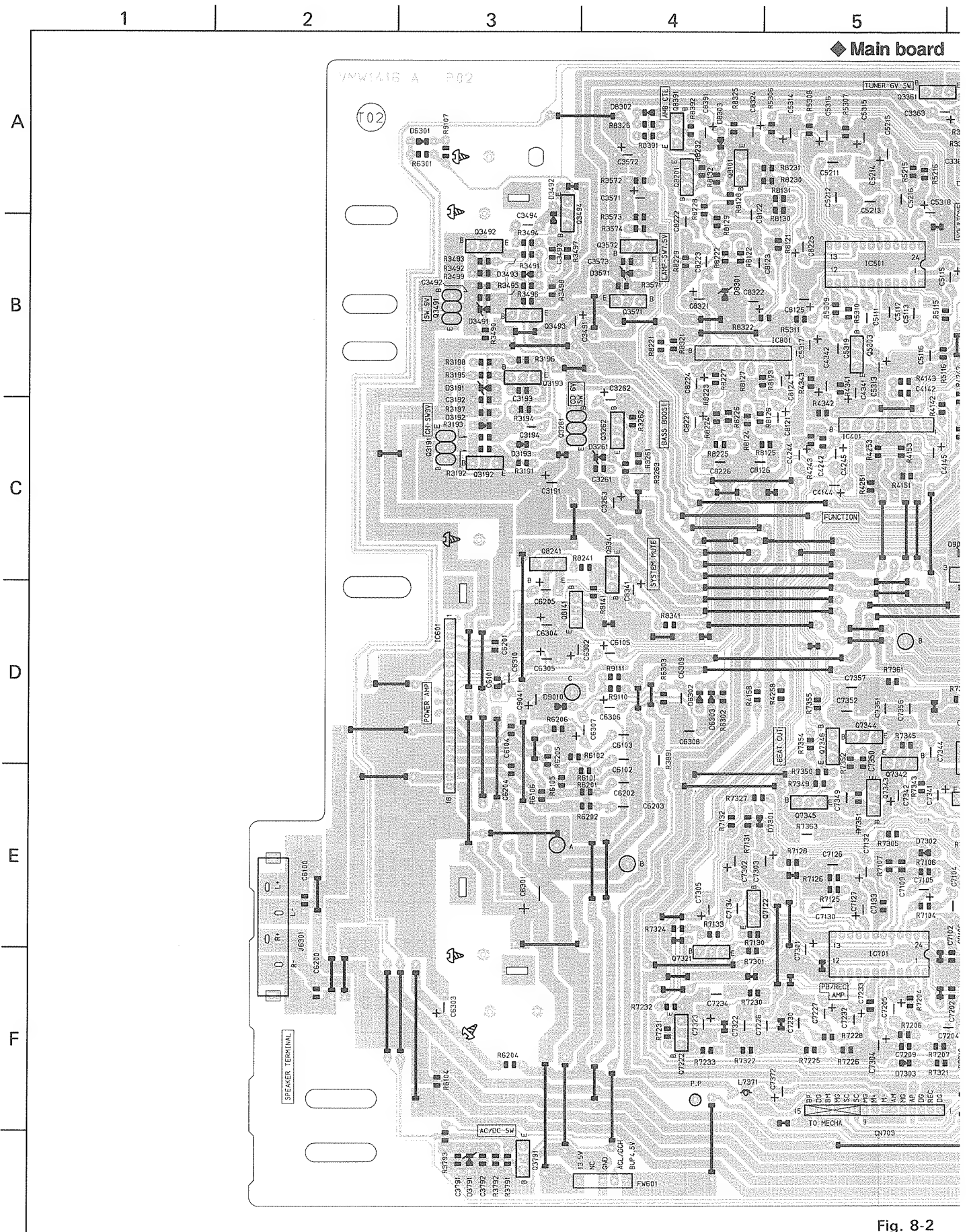


Fig. 8-2



● Main board parts list

BLOCK NO. 01				BLOCK NO. 02			
REF.	PARTS NO.	PARTS NAME	REMARKS	REF.	PARTS NO.	PARTS NAME	REMARKS
CN401	VMC0163-R07	CONNECTOR	MAIN-CD(CAMP)	C5318	QET41EM-106	E.CAPACITOR	10MF 20% 25V
CN402	VMC0041-004	CONNECTOR	TP	C5319	QFLC1HJ-4732M	M.CAPACITOR	.047MF 5% 50V
CN403	VMC0041-002	CONNECTOR	CHANGER MG	C5320	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V
CN702	VMC0040-007	CONNECTOR	TO R/P HEAD	C6101	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V
CN703	VMC0075-009	CONNECTOR	TO MECHA SW	C6102	QFLC1HJ-1042M	M.CAPACITOR	-10MF 5% 50V
CN901	VMC0340-S16	CONNECTOR	SW-MAIN	C6103	QFLC1HJ-1042M	M.CAPACITOR	-10MF 5% 50V
CN902	VMC0340-S10	CONNECTOR	SW-MAIN	C6104	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V
CN903	VMC0163-R09	CONNECTOR	MAIN-TUNER	C6105	QTE1C03-106Z	E.CAPACITOR	1000PF 10% 50V
CN904	VMC0163-R11	CONNECTOR	MAIN-CD(CTL)	C6200	QCB81HK-102Y	C.CAPACITOR	47PF 5% 50V
CN905	VMC0163-R18	CONNECTOR	MAIN-CHANG	C6201	QCS11HJ-470	C.CAPACITOR	1000PF 10% 50V
C3039	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V	C6202	QFLC1HJ-1042M	M.CAPACITOR	-10MF 5% 50V
C3191	QET41AM-477	E.CAPACITOR	470MF 20% 10V	C6203	QFLC1HJ-1042M	M.CAPACITOR	-10MF 5% 50V
C3192	QCV81CM-103Y	C.CAPACITOR	-010MF 20% 16V	C6204	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V
C3193	QCV81CM-222Y	C.CAPACITOR	2200PF 20% 16V	C6205	QTE1C03-106Z	E.CAPACITOR	1000PF 10% 50V
C3194	QCV81CM-104V	C.CAPACITOR	-10MF 20% 25V	C6301	QET1EM-688	E.CAPACITOR	6800MF 20% 25V
C3261	QCV81CM-103Y	C.CAPACITOR	-010MF 20% 16V	C6302	QET1EM-2252M	E.CAPACITOR	2.2MF 20% 50V
C3262	QET41EM-106	E.CAPACITOR	10MF 20% 25V	C6303	QET41CM-227	E.CAPACITOR	220MF 20% 16V
C3263	QET41AM-477	E.CAPACITOR	470MF 20% 10V	C6304	QET41CM-107	E.CAPACITOR	100MF 20% 16V
C3361	QET41CM-476	E.CAPACITOR	47MF 20% 16V	C6305	QET41CM-476	E.CAPACITOR	47MF 20% 16V
C3362	QET1AM-3372N	E.CAPACITOR	330MF 20% 10V	C6306	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V
C3363	QET41EM-106	E.CAPACITOR	10MF 20% 25V	C6307	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V
C3491	QET41AM-107	E.CAPACITOR	100MF 20% 10V	C6308	QCV81HK-473	FILM CAPACITOR	.047MF 5% 50V
C3492	QCV81CM-103Y	C.CAPACITOR	-010MF 20% 16V	C6309	QCV81HK-473	FILM CAPACITOR	.047MF 5% 50V
C3493	QCV81CM-222Y	C.CAPACITOR	2200PF 20% 16V	C6310	QET41EM-106	E.CAPACITOR	10MF 20% 25V
C3494	QEN61HM-105Z	NP-E.CAPACITOR	1.0MF 20% 50V	C7102	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V
C3571	QET41EM-106	E.CAPACITOR	10MF 20% 25V	C7103	QET41AM-227	E.CAPACITOR	220MF 20% 10V
C3572	QET41AM-477	E.CAPACITOR	470MF 20% 10V	C7104	QFLC1HJ-3332M	M.CAPACITOR	.033MF 5% 50V
C3573	QCV81CM-103Y	C.CAPACITOR	-010MF 20% 16V	C7105	QET41HM-1042N	E.CAPACITOR	.10MF 20% 50V
C3791	QCV81CM-103Y	C.CAPACITOR	-010MF 20% 16V	C7106	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V
C3792	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V	C7109	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V
C4142	QCB81HK-5R6Y	C.CAPACITOR	5.6PF 10% 50V	C7121	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V
C4144	QET1CM-2252N	E.CAPACITOR	2.2MF 20% 50V	C7126	QCY41HK-332	E.CAPACITOR	3300PF 10% 50V
C4145	QTE1C03-106Z	E.CAPACITOR	106MF 5% 50V	C7127	QET1EM-2262N	E.CAPACITOR	22MF 20% 25V
C4151	QCB81HK-681Y	C.CAPACITOR	680PF 10% 50V	C7130	QFLC1HJ-8232M	M.CAPACITOR	.082MF 5% 50V
C4242	QCS81HK-5R6Y	C.CAPACITOR	5.6PF 10% 50V	C7132	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V
C4244	QET1HM-2252N	E.CAPACITOR	2.2MF 20% 50V	C7133	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V
C4245	QTE1C03-106Z	E.CAPACITOR	106MF 5% 50V	C7134	QFLC1HJ-2232M	M.CAPACITOR	.022MF 5% 50V
C4251	QCB81HK-681Y	C.CAPACITOR	680PF 10% 50V	C7141	QCS11HJ-331	C.CAPACITOR	330PF 5% 50V
C4341	QET41CM-476	E.CAPACITOR	47MF 20% 16V	C7202	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V
C4342	QET41AM-107	E.CAPACITOR	100MF 20% 10V	C7203	QET41AM-227	E.CAPACITOR	220MF 20% 10V
C5111	QFLC1HJ-8232M	M.CAPACITOR	8200PF 5% 50V	C7204	QFLC1HJ-3332M	M.CAPACITOR	.033MF 5% 50V
C5112	QFLC1HJ-6832M	M.CAPACITOR	-068MF 5% 50V	C7205	QET1HM-1042N	E.CAPACITOR	.10MF 20% 50V
C5113	QFLC1HJ-6832M	M.CAPACITOR	-068MF 5% 50V	C7206	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V
C5115	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	C7209	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V
C5116	QFLC1HJ-5622M	M.CAPACITOR	5600PF 5% 50V	C7221	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V
C5211	QFLC1HJ-8222M	M.CAPACITOR	8200PF 5% 50V	C7226	QCY41HK-332	E.CAPACITOR	3300PF 10% 50V
C5212	QFLC1HJ-6832M	M.CAPACITOR	-068MF 5% 50V	C7227	QET1EM-2262N	E.CAPACITOR	22MF 20% 25V
C5213	QFLC1HJ-6832M	M.CAPACITOR	-068MF 5% 50V	C7230	QFLC1HJ-8232M	M.CAPACITOR	.082MF 5% 50V
C5215	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	C7232	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V
C5216	QFLC1HJ-5622M	M.CAPACITOR	5600PF 5% 50V	C7233	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V
C5313	QET41AM-107	E.CAPACITOR	100MF 20% 10V	C7234	QFLC1HJ-2232M	M.CAPACITOR	.022MF 5% 50V
C5314	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	C7241	QCS11HJ-331	C.CAPACITOR	330PF 5% 50V
C5315	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	C7301	QET41CM-476	E.CAPACITOR	47MF 20% 16V
C5316	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	C7302	QET1EM-2262N	E.CAPACITOR	22MF 20% 25V
C5317	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	C7303	QET1EM-2262N	E.CAPACITOR	22MF 20% 25V

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C9033	QELC1HJ-1042M	M-CAPACITOR	US6VREG	
	C9034	QET41CM-107	E-CAPACITOR	100MF 20% 16V	
	C9036	QCB81HK-151Y	C-CAPACITOR	150PF 10% 50V	
	C9037	QCB81HK-151Y	C-CAPACITOR	150PF 10% 50V	
	C9040	QFV41HJ-1042M	FILM CAPACITOR	10MF 5% 50V	
	C9041	QET41EM-107	E-CAPACITOR	100MF 20% 25V	
	C9501	QCVB1CM-103Y	C-CAPACITOR	DRIVER	
	C9502	QET41CM-476	E-CAPACITOR	47MF 20% 16V	
	C9503	QET41CM-476	E-CAPACITOR	47MF 20% 16V	
	D1901	VGL1199-001	LCD		
	D3191	MTZ8.2JC	ZENER DIODE		
	D3192	1SS133	SI DIODE		
	D3193	1SS133	SI DIODE		
	D3261	MTZ5.1JB	ZENER DIODE		
	D3361	MTZ6.8JB	ZENER DIODE		
	D3362	MTZ5.1JC	ZENER DIODE		
	D3491	MTZ8.2JC	ZENER DIODE		
	D3492	1SS133	SI DIODE		
	D3493	1SS133	SI DIODE		
	D3571	MTZ7.5JA	ZENER DIODE		
	D3791	MTZ6.2JAT-77	ZENER DIODE		
	D3891	1SS133	SI DIODE		
	D3892	1SS133	SI DIODE		
	D3893	1SS133	SI DIODE		
	D3501	RB721Q	DIODE		
	D8302	1SS133	SI DIODE		
	D8303	1SS133	SI DIODE		
	D7301	1SS133	SI DIODE		
	D7302	1SS133	SI DIODE		
	D7303	1SS133	SI DIODE		
	D8301	MTZ4.3JC	ZENER DIODE		
	D8302	1SS133	SI DIODE		
	D8303	1SS133	SI DIODE		
	D9002	MTZ5.1JC	ZENER DIODE	BACK UP	
	D9003	1SS133	SI DIODE	US5V	
	D9004	1SS133	SI DIODE	BATT	
	D9005	1SS133	SI DIODE	PORT EXP	
	D9006	MTZ8.2JB	ZENER DIODE	US6VREG	
	D9010	1SS133	SI DIODE		
	D9501	1SR35-100A-T2	SI DIODE	SOL DRIVE	
	IC401	NJM4580L	IC	ADDER	
	IC501	BH3852S	IC	VOL&TONE	
	IC601	LA4705NA	IC	BTL AMP	
	IC701	AN7345K	IC	PB/REC AMP	
	IC702	BA3126N	IC	HEAD SW	
	IC801	NJM4580L	IC	BB AMP	
	IC901	UPD78064GF-047	IC	SYSTEM MICON	
	IC902	BU4094BC	IC	PORT EXP.	
	IC903	GP1U281Y	REMOCON SENSOR		
	IC904	TA78DLO6S	IC	US6VREG.	
	IC905	PST600H-Y	IC	RESET	
	IC951	TAB409S	IC	LOAD M. DRIVE	
	IC952	TAB409S	IC	U/D M. DRIVE	
	J4301	EMB90TV-401A	SPK TERMINAL		
	J4302	VMJ4026-001	HEADPHONE JACK		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C7304	QET41HM-475	E-CAPACITOR	4.7MF 20% 50V	
	C7305	QETC1HM-335ZN	E-CAPACITOR	3.3MF 20% 50V	
	C7315	QET41CM-107	E-CAPACITOR	100MF 20% 16V	
	C7332	QELC1HJ-393ZM	M-CAPACITOR	0.39MF 5% 50V	
	C7333	QET41AM-227	E-CAPACITOR	220MF 20% 10V	
	C7341	QET41CM-106	E-CAPACITOR	10MF 20% 16V	
	C7342	QETC1HM-104ZN	E-CAPACITOR	10MF 20% 50V	
	C7343	QELC1HJ-473ZM	M-CAPACITOR	0.47MF 5% 50V	
	C7344	QELC1HJ-104ZM	M-CAPACITOR	10MF 5% 50V	
	C7345	QELC1HJ-103ZM	M-CAPACITOR	100MF 5% 50V	
	C7346	QFP31HJ-102ZM	PP-CAPACITOR	1000PF 5% 50V	
	C7347	QFP32AJ-123ZM	PP-CAPACITOR	0.12MF 5% 100V	
	C7349	QCC31EM-393ZV	C-CAPACITOR	0.39MF 20% 25V	
	C7350	QCVB1CM-103Y	C-CAPACITOR	0.10MF 20% 16V	
	C7351	QFN41HJ-222	M-CAPACITOR	BIAS1	
	C7352	QFN41HJ-102	M-CAPACITOR	BIAS2	
	C7356	QCS11HJ-331	C-CAPACITOR	BIAS1	
	C7357	QCS11HJ-151	C-CAPACITOR	BIAS2	
	C7372	QET41AM-227	E-CAPACITOR	220MF 20% 10V	
	C8121	QETC1EM-226ZM	E-CAPACITOR	22MF 20% 25V	
	C8122	QFV41HJ-104ZM	FILM CAPACITOR	10MF 5% 50V	
	C8123	QFV41HJ-104ZM	FILM CAPACITOR	10MF 5% 50V	
	C8124	QET41AM-107	E-CAPACITOR	100MF 20% 10V	
	C8125	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V	
	C8221	QETC1EM-226ZM	E-CAPACITOR	22MF 20% 25V	
	C8222	QFV41HJ-104ZM	FILM CAPACITOR	10MF 5% 50V	
	C8223	QFV41HJ-104ZM	FILM CAPACITOR	10MF 5% 50V	
	C8224	QET41AM-107	E-CAPACITOR	100MF 20% 10V	
	C8225	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V	
	C8321	QET41CM-476	E-CAPACITOR	47MF 20% 16V	
	C8322	QET41CM-476	E-CAPACITOR	47MF 20% 16V	
	C8324	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V	
	C8341	QET41EM-106	E-CAPACITOR	10MF 20% 25V	
	C8391	QET41HM-475	E-CAPACITOR	4.7MF 20% 50V	
	C9001	QCS11HJ-180	C-CAPACITOR	SUB CLOCK	
	C9002	QCS11HJ-180	C-CAPACITOR	SUB CLOCK	
	C9003	QCB81HK-102Y	C-CAPACITOR	BEAT	
	C9004	QCB81HK-102Y	C-CAPACITOR	BEAT	
	C9005	QCS11HJ-360	C-CAPACITOR	MAIN CLOCK	
	C9006	QCS11HJ-360	C-CAPACITOR	MAIN CLOCK	
	C9007	QCS11HJ-220	C-CAPACITOR	MAIN CLOCK	
	C9008	QCS11HJ-240	C-CAPACITOR	MAIN CLOCK	
	C9009	QCVB1CM-103Y	C-CAPACITOR	VDD	
	C9010	QET41CM-107	E-CAPACITOR	VDD	
	C9011	QCVB1CM-103Y	C-CAPACITOR	RESET	
	C9012	QETC1EM-226ZN	E-CAPACITOR	22MF 20% 25V	
	C9015	QCB81HK-221Y	C-CAPACITOR	SUBQ	
	C9017	QET41EM-106	E-CAPACITOR	VOL	
	C9019	QET41EM-106	E-CAPACITOR	BASS	
	C9020	QET41EM-106	E-CAPACITOR	TRE	
	C9021	QELC1HJ-104ZM	M-CAPACITOR	AVDD	
	C9023	QCB81HK-101Y	C-CAPACITOR	XRST	
	C9030	QET41CM-476	E-CAPACITOR	PORT EXP	
	C9031	QCB81HK-102Y	C-CAPACITOR	REM	
	C9032	QET41CM-476	E-CAPACITOR	47MF 20% 16V	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7321	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R7322	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R7324	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R7327	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R7341	QRD0077-470	F RESISTOR	47 1/0W	
R7342	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R7343	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R7344	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R7345	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R7346	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7349	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R7350	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R7351	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R7352	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R7354	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R7355	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R7361	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
R7362	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R7371	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R8121	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8122	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R8123	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R8124	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8125	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R8126	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8128	QRD161J-752	CARBON RESISTOR	7.5K 5% 1/6W	
R8129	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8130	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R8131	QRD161J-352	CARBON RESISTOR	3.5K 5% 1/6W	
R8132	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8141	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8221	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8222	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R8223	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R8224	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8225	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R8226	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8228	QRD161J-752	CARBON RESISTOR	7.5K 5% 1/6W	
R8229	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R8330	QRD161J-352	CARBON RESISTOR	3.5K 5% 1/6W	
R8331	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R8341	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8342	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R8321	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R8322	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8325	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R8326	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R8341	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R8391	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R8392	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R9001	QRD161J-681	CARBON RESISTOR	MAIN-CLOCK	
R9002	QRD161J-681	CARBON RESISTOR	MAIN-CLOCK	
R9003	QRD161J-103	CARBON RESISTOR	RESET	
R9005	QRD161J-104	CARBON RESISTOR	BACK UP	
R9006	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R5115	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R5116	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R5215	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R5216	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R5306	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R5307	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R5308	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R5309	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R5310	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R5311	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R6101	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R6102	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R6103	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R6104	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R6105	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R6106	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R6201	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R6202	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R6203	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R6204	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R6205	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R6206	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R6301	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R6302	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R6303	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R7103	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R7104	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R7106	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R7107	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R7121	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R7125	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R7126	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R7128	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R7130	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R7131	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R7132	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R7133	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7141	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R7203	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R7204	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R7206	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R7207	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R7221	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R7225	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R7226	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R7228	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R7230	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R7231	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R7232	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R7233	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7241	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R7301	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R7305	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R7315	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
R7316	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	

BLOCK NO. 011

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R9007	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R9008	QRD161J-153	CARBON RESISTOR	SDATA	
R9009	QRD161J-153	CARBON RESISTOR	SCK	
R9010	QRD161J-102	CARBON RESISTOR	SDATA	
R9011	QRD161J-102	CARBON RESISTOR	SCK	
R9012	QRD161J-102	CARBON RESISTOR	SUBQ	
R9013	QRD161J-102	CARBON RESISTOR	SCK	
R9014	QRD161J-103	CARBON RESISTOR	RESET	
R9015	QRD161J-222	CARBON RESISTOR	DC PS	
R9016	QRD161J-222	CARBON RESISTOR	LP PS	
R9017	QRD161J-222	CARBON RESISTOR	BCM PS	
R9018	QRD161J-222	CARBON RESISTOR	REM	
R9019	QRD161J-222	CARBON RESISTOR	BEAT	
R9020	QRD161J-103	CARBON RESISTOR	BACK UP	
R9021	QRD161J-682	CARBON RESISTOR	ABCTL	
R9022	QRD161J-103	CARBON RESISTOR	RECSW	
R9023	QRD161J-562	CARBON RESISTOR	FCD	
R9025	QRD161J-222	CARBON RESISTOR	SMUTE	
R9026	QRD161J-682	CARBON RESISTOR	VOLUM	
R9027	QRD161J-103	CARBON RESISTOR	BASS	
R9028	QRD161J-103	CARBON RESISTOR	TRE	
R9030	QRD161J-243	CARBON RESISTOR	BASS	
R9031	QRD161J-243	CARBON RESISTOR	TRE	
R9032	QRD161J-103	CARBON RESISTOR	KEYO	
R9033	QRD161J-103	CARBON RESISTOR	KEY1	
R9034	QRD161J-103	CARBON RESISTOR	KEY2	
R9035	QRD161J-222	CARBON RESISTOR	REST	
R9036	QRD161J-222	CARBON RESISTOR	LOAD	
R9037	QRD161J-222	CARBON RESISTOR	DOWN	
R9038	QRD161J-222	CARBON RESISTOR	KEY3	
R9039	QRD161J-103	CARBON RESISTOR	SAFETY1	
R9040	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R9041	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
R9042	QRD161J-103	CARBON RESISTOR	PULL UP	
R9043	QRD161J-103	CARBON RESISTOR	PULL UP	
R9044	QRD161J-103	CARBON RESISTOR	PULL UP	
R9045	QRD161J-103	CARBON RESISTOR	PULL UP	
R9046	QRD161J-103	CARBON RESISTOR	PULL UP	
R9047	QRD161J-103	CARBON RESISTOR	PULL UP	
R9048	QRD161J-103	CARBON RESISTOR	PULL UP	
R9049	QRD161J-103	CARBON RESISTOR	MPX	
R9050	QRD161J-103	CARBON RESISTOR	PERIOD	
R9051	QRD161J-103	CARBON RESISTOR	LED1	
R9052	QRD161J-103	CARBON RESISTOR	LED2	
R9053	QRD161J-103	CARBON RESISTOR	LED3	
R9054	QRD161J-103	CARBON RESISTOR	LED4	
R9055	QRD161J-103	CARBON RESISTOR	LED5	
R9056	QRD161J-103	CARBON RESISTOR	LED6	
R9057	QRD161J-103	CARBON RESISTOR	LED7	
R9058	QRD161J-103	CARBON RESISTOR	LED8	
R9059	QRD161J-103	CARBON RESISTOR	LED9	
R9060	QRD161J-103	CARBON RESISTOR	LED10	
R9061	QRD161J-822	CARBON RESISTOR	LCD BIAS	
R9062	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R9063	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	

BLOCK NO. 011

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R9064	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R9065	QRD161J-102	CARBON RESISTOR	STAT	
R9066	QRD161J-102	CARBON RESISTOR	XRST	
R9070	QRD161J-103	CARBON RESISTOR	SCD	
R9073	QRD161J-103	CARBON RESISTOR	LM F	
R9074	QRD161J-103	CARBON RESISTOR	LM R	
R9075	QRD161J-103	CARBON RESISTOR	UDM UP	
R9076	QRD161J-103	CARBON RESISTOR	UDM DOWN	
R9077	QRD161J-222	CARBON RESISTOR	UDM V	
R9078	QRD161J-222	CARBON RESISTOR	SOL	
R9079	QRD161J-103	CARBON RESISTOR	PIN	
R9080	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R9081	QRD161J-222	CARBON RESISTOR	RECB	
R9082	QRD161J-103	CARBON RESISTOR	AC/DC	
R9083	QRD161J-103	CARBON RESISTOR	SAFETY2	
R9084	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9085	QRD161J-103	CARBON RESISTOR	LATCH	
R9086	QRD161J-102	CARBON RESISTOR	SDATA	
R9087	QRD161J-102	CARBON RESISTOR	SCK	
R9088	QRD161J-103	CARBON RESISTOR	AHB	
R9089	QRD161J-222	CARBON RESISTOR	PBM	
R9090	QRD161J-222	CARBON RESISTOR	RECH	
R9091	QRD161J-103	CARBON RESISTOR	A/B	
R9092	QRD161J-103	CARBON RESISTOR	BIAS2	
R9093	QRD161J-103	CARBON RESISTOR	BIAS1	
R9094	QRD161J-103	CARBON RESISTOR	LIVE	
R9095	QRD161J-103	CARBON RESISTOR	FTU	
R9096	QRD161J-104	CARBON RESISTOR	RECSW PUP	
R9097	QRD161J-273	CARBON RESISTOR	CD REST	
R9098	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R9099	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R9100	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R9101	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R9105	QRD161J-102	CARBON RESISTOR	MPX	
R9106	QRD161J-102	CARBON RESISTOR	PERIOD	
R9107	QRD161J-102	CARBON RESISTOR	POUT	
R9110	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9111	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R9501	QR20076-100X	FUSI RESISTOR	DRIVER	
R9502	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
R9503	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R9504	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R9505	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R9506	QRD161J-563	CARBON RESISTOR	DC LIM	
R9507	QRD161J-563	CARBON RESISTOR	UL LIM	
R9508	QRD161J-273	CARBON RESISTOR	CLOSE	
R9509	QRD161J-273	CARBON RESISTOR	UP	
R9510	QRD161J-563	CARBON RESISTOR	DOWN	
R9511	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R9512	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
VR741	QVPA603-502M	SEMI-V. RESISTOR	BIAS ADJ	
X9001	VCX5000-002	CRYSTAL	SUB CLOCK	
X9002	M274.19	CERA LOCK	MAIN CLOCK	

■ Power supply/key switch board

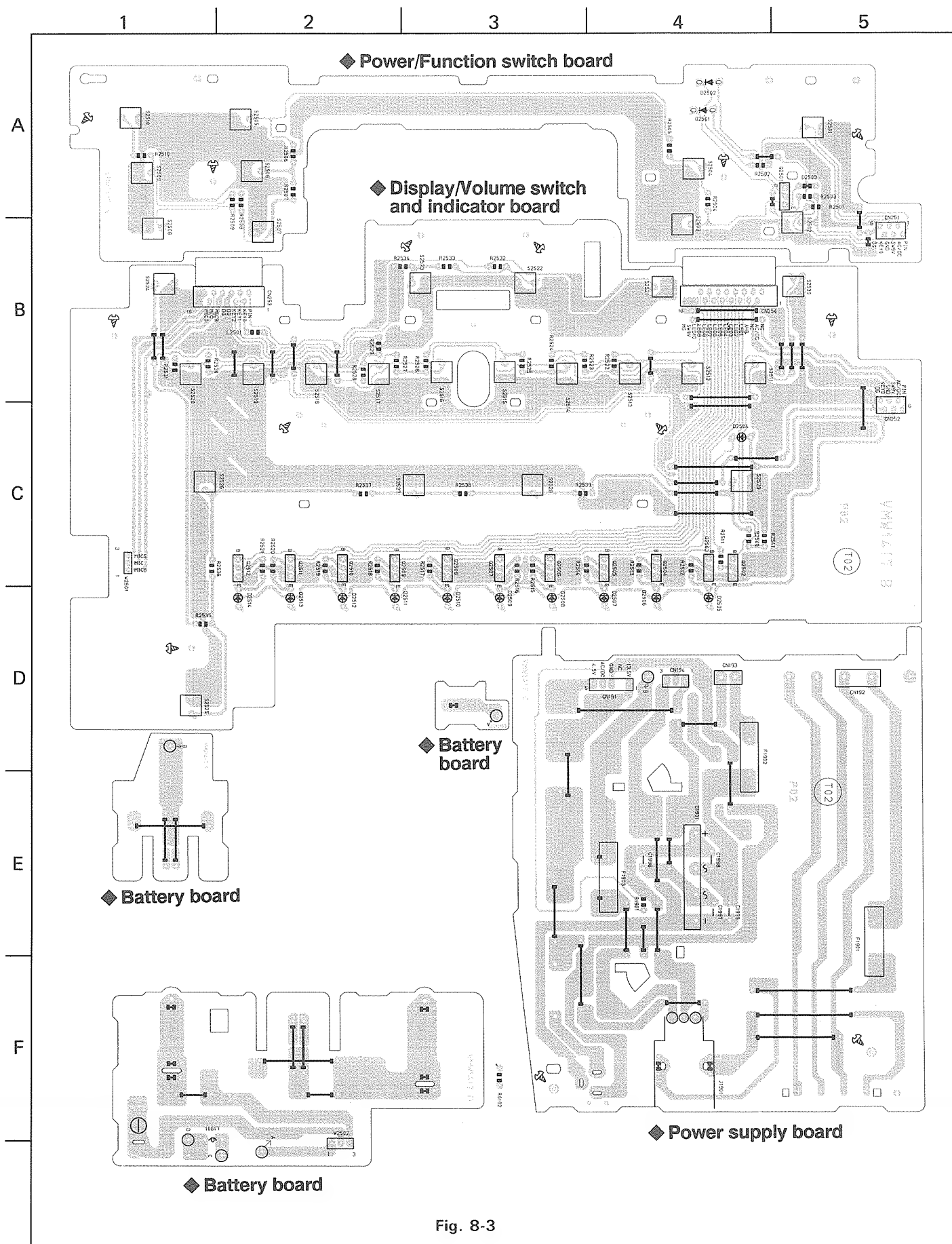


Fig. 8-3

● Power supply/key switch board parts list

BLOCK NO. 03					BLOCK NO. 03				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
A	CLIP	EMG7331-003Z	FUSE CLIP		R2512	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
A	CN191	VMC0041-0005	CONNECTOR		R2513	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN192	VMZ0049-B02	CONNECTOR		R2514	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN193	VMZ0049-A02	CONNECTOR		R2515	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN194	VMC0041-0003	CONNECTOR		R2516	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN251	VMC0163-R06	CONNECTOR	KEYA-KEYB	R2517	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN252	VMC0163-R06	CONNECTOR	KEYA-KEYB	R2518	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN253	VMC0340-P10	CONNECTOR	SW-MAIN	R2519	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	CN254	VMC0340-P16	CONNECTOR	SW-MAIN	R2520	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
A	C1995	QETM1EM-338	E CAPACITOR	3300MF 20% 25V	R2521	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	C1996	QFV71HJ-6832M	FILM CAPACITOR	.068MF 5% 50V	R2522	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C1997	QFV71HJ-6832M	FILM CAPACITOR	.068MF 5% 50V	R2523	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	C1998	QFV71HJ-6832M	FILM CAPACITOR	.068MF 5% 50V	R2524	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	C1999	QFV71HJ-6832M	FILM CAPACITOR	.068MF 5% 50V	R2525	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
A	D1901	D5SBA20-4003	SI DIODE		R2526	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	D2502	SLR-325VCT31	LED	STAND-BY LED	R2527	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	D2503	1SS133	SI DIODE	FOR STAND-BY	R2528	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	D2504	SLZ-981C09-T6	LED	AHB	R2529	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	D2505	SLZ-981C09-T6	LED	DISC1	R2530	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	D2506	SLZ-981C09-T6	LED	DISC2	R2532	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	D2507	SLZ-981C09-T6	LED	DISC3	R2533	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	D2508	SLZ-981C09-T6	LED	DISC4	R2534	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	D2509	SLZ-981C09-T6	LED	DISC5	R2535	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	D2510	SLZ-981C09-T6	LED	DISC6	R2536	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	D2511	SLZ-981C09-T6	LED	DISC7	R2537	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	D2512	SLZ-981C09-T6	LED	DISC8	R2538	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	D2513	SLZ-981C09-T6	LED	DISC9	R2539	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	D2514	SLZ-981C09-T6	LED	DISC10	R2540	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	J1901	QMCB251-V01	AC SOCKET		S2501	QS04H11-V10Z	TACT SWITCH	POWER	
	L1901	VQZ0048-009	INDUCTOR		S2502	QS04H11-V10Z	TACT SWITCH	TUNER	
	L2501	VQPO018-4R7	INDUCTOR		S2503	QS04H11-V10Z	TACT SWITCH	CLOCK	
	P PIN	VMZ0015-005	POST PIN		S2504	QS04H11-V10Z	TACT SWITCH	TIMER	
	Q2501	DTA124TSTP	TRANSISTOR TAPE	STAND-BY LED	S2505	QS04H11-V10Z	TACT SWITCH	DEMO	
	Q2502	DTA124TSTP	TRANSISTOR	AHB	S2506	QS04H11-V10Z	TACT SWITCH	CONTINUE	
	Q2503	DTA124TSTP	TRANSISTOR	D1LED	S2507	QS04H11-V10Z	TACT SWITCH	PROGRAM	
	Q2504	DTA124TSTP	TRANSISTOR	D2LED	S2508	QS04H11-V10Z	TACT SWITCH	TRACK	
	Q2505	DTA124TSTP	TRANSISTOR	D3LED	S2509	QS04H11-V10Z	TACT SWITCH	B-SKIP	
	Q2506	DTA124TSTP	TRANSISTOR	D4LED	S2510	QS04H11-V10Z	TACT SWITCH	F-SKIP	
	Q2507	DTA124TSTP	TRANSISTOR	D5LED	S2511	QS04H11-V10Z	TACT SWITCH	DISC1	
	Q2508	DTA124TSTP	TRANSISTOR	D6LED	S2512	QS04H11-V10Z	TACT SWITCH	DISC2	
	Q2509	DTA124TSTP	TRANSISTOR	D7LED	S2513	QS04H11-V10Z	TACT SWITCH	DISC3	
	Q2510	DTA124TSTP	TRANSISTOR	D8LED	S2514	QS04H11-V10Z	TACT SWITCH	DISC4	
	Q2511	DTA124TSTP	TRANSISTOR	D9LED	S2515	QS04H11-V10Z	TACT SWITCH	DISC5	
	Q2512	DTA124TSTP	TRANSISTOR	D10LED	S2516	QS04H11-V10Z	TACT SWITCH	DISC6	
	R1901	QRD161J-103	CARBON RESISTOR	AC/DC	S2517	QS04H11-V10Z	TACT SWITCH	DISC7	
	R2502	QRD161J-331	CARBON RESISTOE	STAND-BY	S2518	QS04H11-V10Z	TACT SWITCH	DISC8	
	R2503	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	S2519	QS04H11-V10Z	TACT SWITCH	DISC9	
	R2504	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	S2520	QS04H11-V10Z	TACT SWITCH	DISC10	
	R2505	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	S2521	QS04H11-V10Z	TACT SWITCH	DISP	
	R2506	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	S2522	QS04H11-V10Z	TACT SWITCH	STOP	
	R2507	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	S2523	QS04H11-V10Z	TACT SWITCH	PLAY	
	R2508	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	S2524	QS04H11-V10Z	TACT SWITCH	+10	
	R2509	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	S2525	QS04H11-V10Z	TACT SWITCH	OP/CL	
	R2510	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	S2526	QS04H11-V10Z	TACT SWITCH	SOUND	
	R2511	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	S2527	QS04H11-V10Z	TACT SWITCH	VOL+	
					S2528	QS04H11-V10Z	TACT SWITCH	VOL-	
					S2529	QS04H11-V10Z	TACT SWITCH	AHB	
					S2530	QS04H11-V10Z	TACT SWITCH	PRESET	

■ CD amplifier board

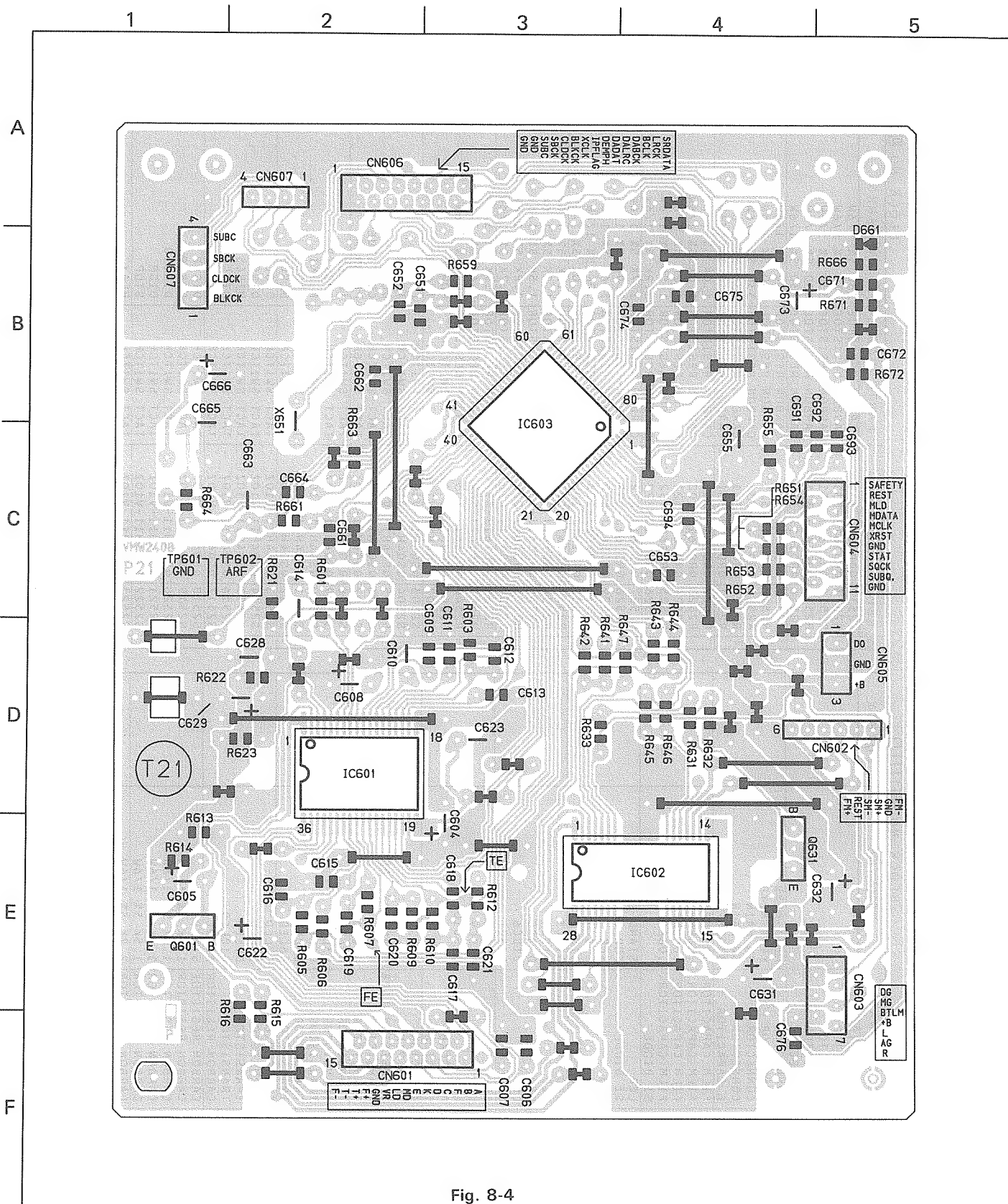


Fig. 8-4

● CD amp. board parts list

BLOCK NO. 004						BLOCK NO. 004					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	604	QEK51AM-107	E CAPACITOR	100MF 20% 10V		R	603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
C	605	QET41EM-106	E-CAPACITOR	10MF 20% 25V		R	606	QRD167J-134	CARBON RESISTOR	130K 5% 1/6W	
C	606	QCB81HK-102Y	C-CAPACITOR	1000PF 10% 50V		R	605	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
C	607	QCB81HK-102Y	C-CAPACITOR	1000PF 10% 50V		R	607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
C	608	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V		R	609	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
C	609	QCB81HK-101Y	C-CAPACITOR	100PF 10% 50V		R	610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
C	610	QFLC1HJ-273ZM	M-CAPACITOR	.022MF 5% 50V		R	612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
C	611	QCB11CM-222Y	C-CAPACITOR	2200PF 20% 16V		R	613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
C	612	QCB11CM-103Y	C-CAPACITOR	.010MF 20% 16V		R	614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
C	613	QCB81HK-331Y	C-CAPACITOR	330PF 10% 50V		R	615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
C	614	QFLC1HJ-104ZM	M-CAPACITOR	.10MF 5% 50V		R	616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
C	615	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		R	621	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
C	616	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		R	622	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
C	617	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		R	623	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
C	618	QCB11CM-222Y	C-CAPACITOR	2200PF 20% 16V		R	631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
C	619	QCB81HK-271Y	C-CAPACITOR	270PF 10% 50V		R	632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
C	620	QCS11HJ-470	C-CAPACITOR	47PF 5% 50V		R	633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
C	621	QCB11HK-821Y	C-CAPACITOR	820PF 10% 50V		R	641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
C	622	QET41AM-476	E-CAPACITOR	47MF 20% 10V		R	642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
C	623	QFLC1HJ-104ZM	M-CAPACITOR	.10MF 5% 50V		R	643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
C	628	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		R	644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
C	629	QET41AM-107	E-CAPACITOR	100MF 20% 10V		R	645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
C	631	QET41AM-477	E-CAPACITOR	470MF 20% 10V		R	646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
C	632	QEK51AM-107	E-CAPACITOR	100MF 20% 10V		R	647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
C	651	QCS11HJ-120	C-CAPACITOR	12PF 5% 50V		R	651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	652	QCS11HJ-150	C-CAPACITOR	15PF 5% 50V		R	652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	653	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		R	653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	655	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		R	654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	661	QCB81HK-471Y	C-CAPACITOR	470PF 10% 50V		R	655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
C	662	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		R	659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
C	663	QFLC1HJ-223ZM	M-CAPACITOR	.022MF 5% 50V		R	661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
C	664	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		R	663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
C	665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V		R	664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
C	671	QCB81CM-222Y	C-CAPACITOR	2200PF 20% 16V		R	666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
C	672	QCB81CM-222Y	C-CAPACITOR	2200PF 20% 16V		R	671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	673	QET41AM-227	E-CAPACITOR	220MF 20% 10V		R	672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	674	QCH81E2-223	C-CAPACITOR	.022MF +80:-20%		X	651	VXC5016-934V	CRYSTAL	16.9344MHZ	
C	675	QCB81HK-102Y	C-CAPACITOR	AG-DG							
C	676	QCB81HK-102Y	C-CAPACITOR	AG-DG							
C	691	QCB81HK-151Y	C-CAPACITOR	DENGEN NOISE							
C	692	QCB81HK-151Y	C-CAPACITOR	DENGEN NOISE							
C	693	QCB81HK-151Y	C-CAPACITOR	DENGEN NOISE							
C	694	QCB81HK-151Y	C-CAPACITOR	DENGEN NOISE							
CN	601	EMV7144-015R	15PIN CONNECTOR	TO RF							
CN	602	EMV5109-006A	6P PLUG ASSY	TO MOTOR							
CN	603	VMC0163-R07	CONNECTOR	TO AUDIO							
CN	604	VMC0163-R11	CONNECTOR	TO MICRON							
CN	605	VMC0041-003	CONNECTOR	TO DIGITAL OUT							
D	661	1S5133	SI DIODE								
IC	601	AN88065B	IC	RF AMP							
IC	602	BA2897FP	IC	DRIVER							
IC	603	MN35510	IC	1CHIP PROCESSER							
Q	601	2SA952(L,K)	TRANSISTOR								
Q	631	2SA952(L,K)	TRANSISTOR								
R	601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W							

9 Exploded View of Enclosure Assembly ■ Speaker section

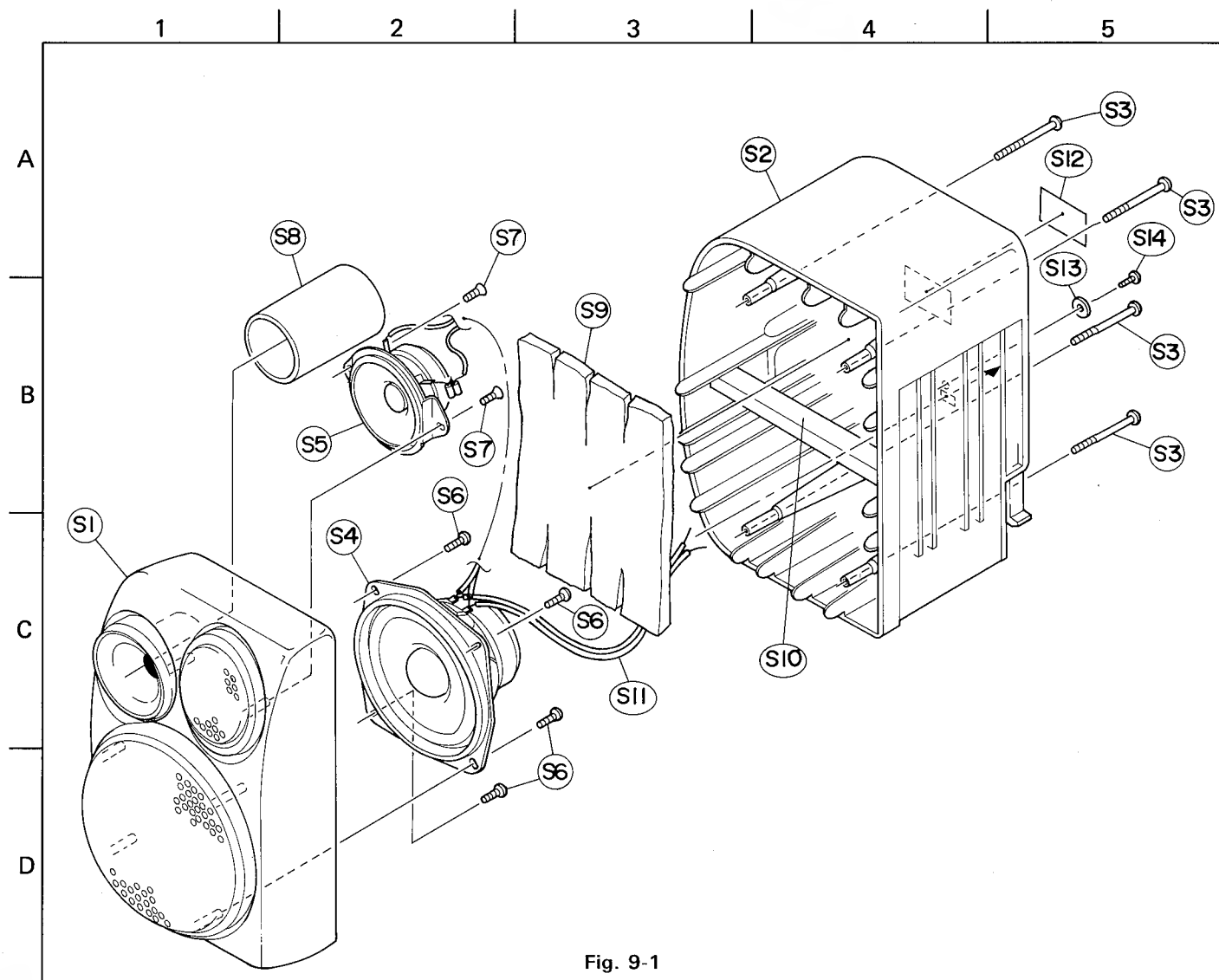


Fig. 9-1

● Speaker section parts list

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
S	1	VJC2569-00A	SP.F.PANEL ASS'Y	LEFT SIDE	1		
		VJC2570-00A	F.PANEL ASS'Y	RIGHT SIDE	1		
S	2	VJG1289-002	SP R.CABINET(L)	LEFT SIDE	1		
		VJG1290-003	SP.R.CABINET(R)	RIGHT SIDE	1		
S	3	SBSF3035Z	SCREW	FRONT + REAR	4		
S	4	VGS1201-012	SPEAKER	WOOFER	1		
S	5	VGS0501-007	SPEAKER	TWEETER	1		
S	6	GBSF3010Z	TAPPING SCREW	FOR WOOFER	4		
S	7	GBSF3010Z	TAPPING SCREW	FOR TWEETER	2		
S	8	VKZ4778-001	DUCT		1		
S	9	VKZ4742-001	SOUND ABSORBER		1		
S	10	VYH7914-001	STAY		1		
S	11	VMP0040-002T	SPK CORD	FOR SPEAKER	1		
S	12	VYN7073-M001B	NAME PLATE		1		
S	13	VYSS2R7-007	SPACER		1		
S	14	GBSF3008M	SCREW		1		

■ Enclosure assembly section

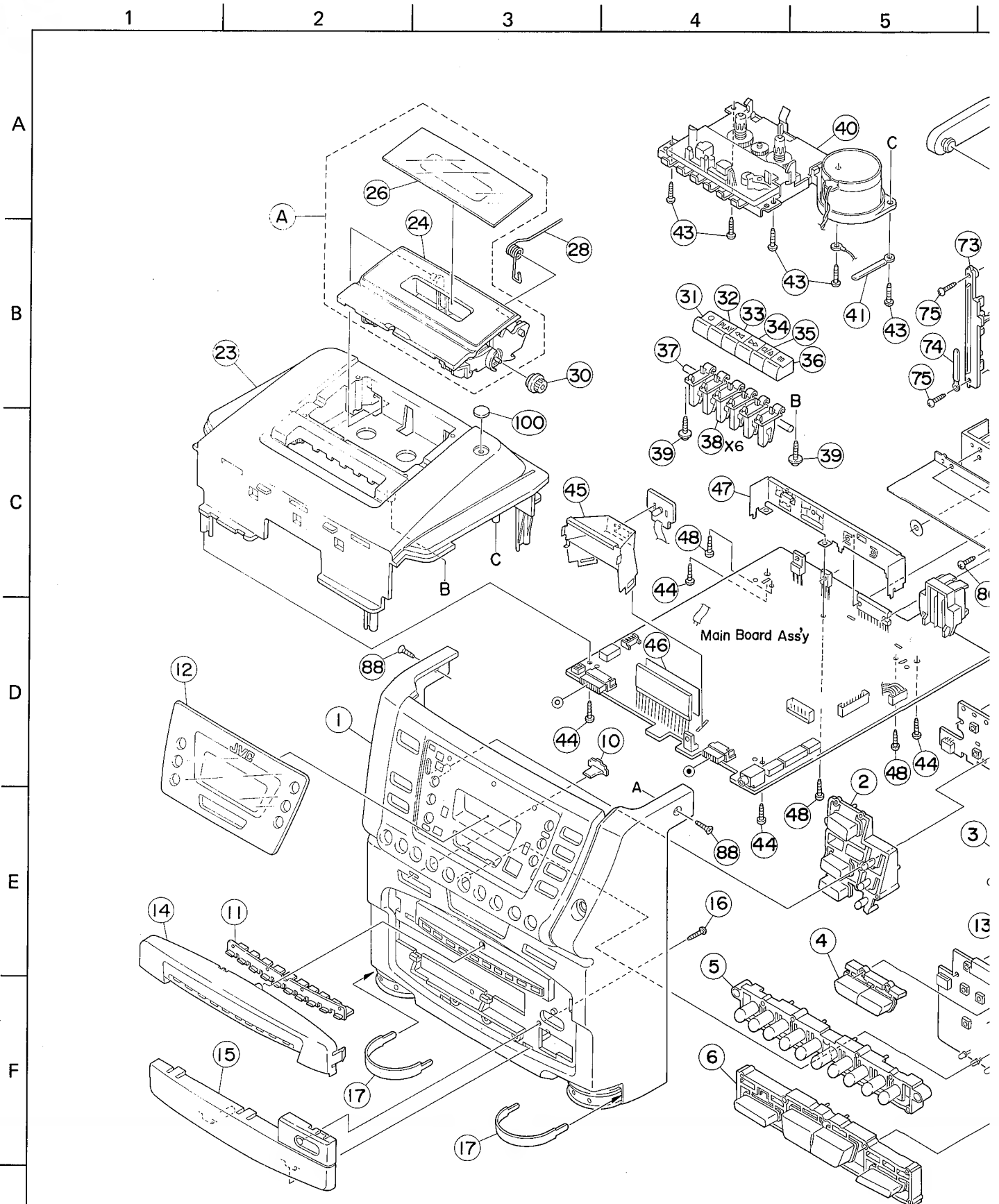
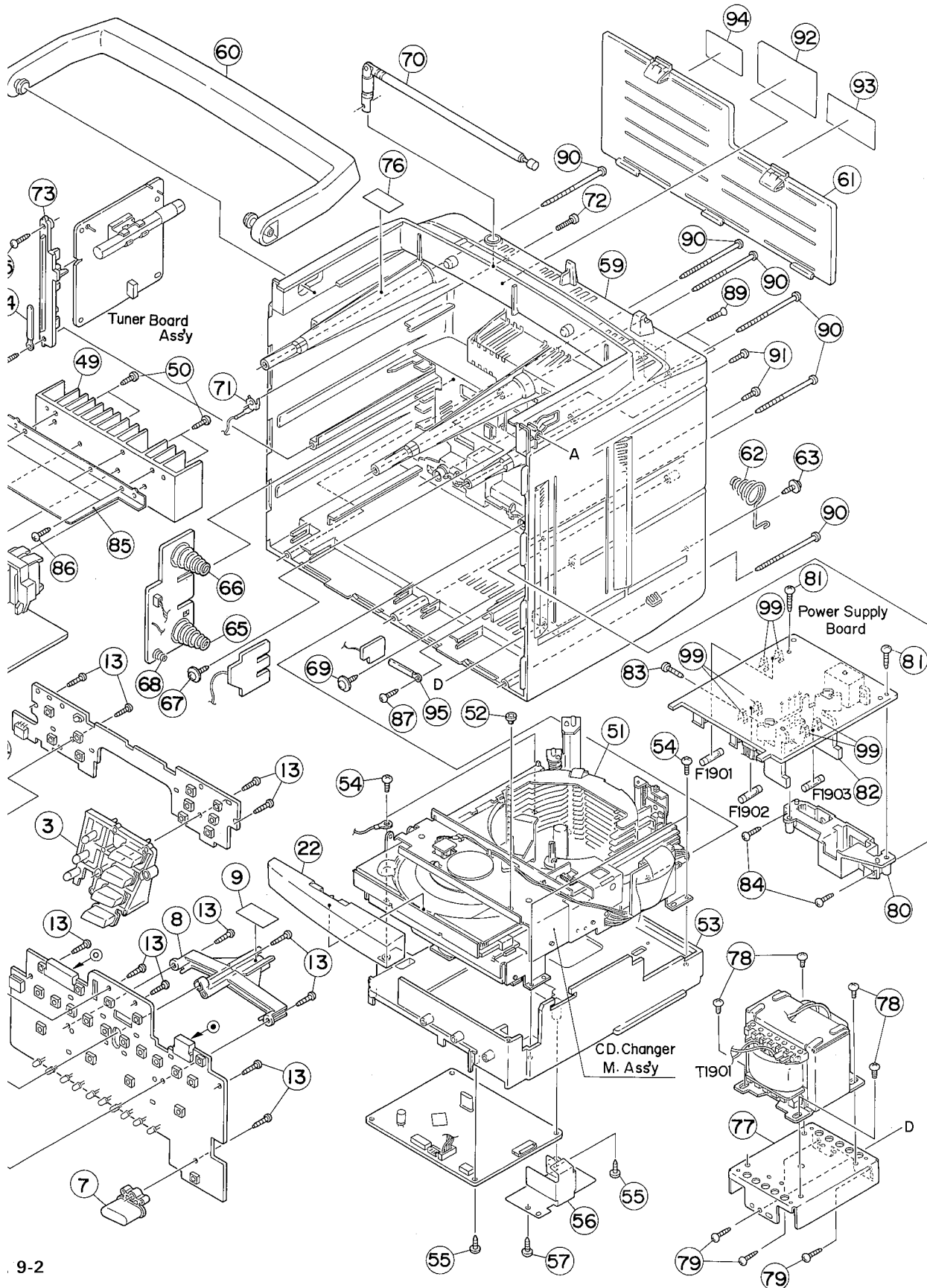


Fig. 9-2

6	7	8	9	10
---	---	---	---	----



● Enclosure assembly section parts list

BLOCK NO. M2MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCPRXC60K-CB	CASSETTE DOOR	ASS'Y	1		
	1	VJG1406-001UL	FRONT CABINET		1		
	2	VXP3790-001	PUSH BUTTON(A)	POWER	1		
	3	VXP3791-001	PUSH BUTTON(B)	BAND SEARCH	1		
	4	VXP5331-001	PUSH BUTTON(C)	CD PLAY/STOP	1		
	5	VXP3792-001	PUSH BUTTON(D)	10 KEY	1		
	6	VXP3793-001	PUSH BUTTON(E)	VOLUME/AHB	1		
	7	VXP5332-001	EJECT BUTTON		1		
	8	VYH3928-001	FRONT HOLDER		1		
	9	VYSA1R4-076	SPACER		1		
	10	VJK4481-001	AHB LENS		1		
	11	VJK3690-001	INDICATER LENS		1		
	12	VJD3996-001	LCD LENS		1		
	13	SBSF2610Z	SCREW	F.CAB+SW PWB	12		
	14	VJD3997-001	FRONT COVER(A)		1		
	15	VJD3998-003	FRONT COVER(B)		1		
	16	SBSF2610Z	SCREW		1		
	17	VJD5483-002	FOOT PLATE		2		
	22	VJE3002-001	TRAY FITTING		1		
	23	VJG1412-001UL	TOP COVER		1		
	24	VJT2365-001	CASSETTE DOOR		1		
	26	VJT4230-003	DOOR LENS		1		
	28	VKW5218-001	DOOR SPRING		1		
	30	VYH7366-001MM	GEAR	GREASE NO.332	1		
	31	VXP2116-001	MECHA BUTTON	REC	1		
	32	VXP2116-002	MECHA BUTTON	PLAY	1		
	33	VXP2116-003	MECHA BUTTON	REW	1		
	34	VXP2116-004	MECHA BUTTON	FF	1		
	35	VXP2116-005	MECHA BUTTON	STOP/EJECT	1		
	36	VXP2116-006	MECHA BUTTON	PAUSE	1		
	37	VYH7877-002	SHAFT		1		
	38	VYH7883-002	BUTTON LEVER		6		
	39	E65923-001	TAPPING SCREW		2		
	40	-----	CASSETTE MA(S)		1		
	41	VKZ4001-111	WIRE HOLDER	TO CASS MECHA	1		
	43	SBSF3010Z	SCREW	TOP+MECHA	5		
	44	SBSF3010Z	SCREW	TOP+ MAIN PWB	4		
	45	VYH3926-001	LCD HOLDER		1		
	46	VYH8059-001	SHEET		1		
	47	VYH3921-001	IC HOLDER		1		
	48	SBST3006Z	SCREW	FOR IC HOLDER	3		
	49	VYH3892-004	HEAT SINK(AMP)		1		
	50	SBST3012Z	SCREW	HEAT SINK+IC HO	4		
	51	-----	CHANGER MECHA		1		
	52	VKS5503-001	GUIDE PIN		1		
	53	VYH1259-001	CHG MECHA STAND		1		
	54	SBSF3010Z	SCREW	CHG MEHA+STAND	4		
	55	SBSF3010Z	SCREW	CD AMP PWB+STAN	2		
	56	VMA4699-001	SHIELD		1		
	57	SBSF3010Z	SCREW	FOR SHIELD	1		
	59	VJG1403-001UL	REAR CABINET		1		
	60	VJH2016-002	HANDLE		1		
	61	VJC2566-001	BATTERY COVER		1		
	62	VYH5657-008	BATTERY SPRING		1		

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
63	E65923-004	TAPPING SCREW	FOR BATTE SP.	1		
65	VYH5483-001	BATTERY SPRING		1		
66	VYH5483-004	SPRING		1		
67	E65923-001	TAPPING SCREW		1		
68	VYH7199-001	BATTERY SPRING		1		
69	E65923-001	TAPPING SCREW		1		
70	FMJA3001-00A(D)	ROD ANT ASS'Y		1		
71	VYH5012-005SS	TERMINAL LUG	FOR ROD ANTENNA	1		
72	SDSP3016N	SCREW	FOR ROD ANTENNA	1		
73	VYH8050-001	TUNER HOLDER		1		
74	VKZ4001-111	WIRE HOLDER	FOR TUNER WIRE	1		
75	SBSF3014Z	SCREW	FOR TUNER HOL	2		
76	VYSA1R4-056	SPACER	FOR ANT WIRE	1		
77	VYH8063-001	TRANS BRACKET		1		
78	SBST4006Z	SCREW	TRANS+TR.BKT	4		
79	SBSF3010Z	SCREW	TR.BKT SA+R.CAB	3		
80	VYH3922-001	AC JACK HOLDER		1		
81	SBSF3010Z	SCREW	AC JACK HOL+PWB	2		
82	VYH8054-001	HEAT SINK(PRI)		1		
83	SBSF3010Z	SCREW	IC + HEAT SINK	1		
84	SBSF3010Z	SCREW	AC JAC HOL+R.CA	2		
85	VYH8111-001MM	HEAT SINK PLATE		1		
86	SBSG3008CC	T.SCREW	HEAT SINK PLATE	3		
87	SBSF3010Z	SCREW	FOR WIRE HOLDER	1		
88	SSSF3010M	SCREW	FR+REAR --SIDE	2		
89	SBSF3010Z	SCREW	SP JACK --REAR	2		
90	SBSF3050Z	SCREW	REAR BACK WARD	6		
91	SBSF3010Z	SCREW	C.M.STAND-REAR	2		
92	VYN7074-M006T	NAME PLATE		1	C	
92	VYN7074-M006T	NAME PLATE		1	J	
93	VND5001-002	HHS LABEL		1	J	
94	VND5008-001	FCC LABEL(4)		1	J	
95	VKZ4001-111	WIRE HOLDER	FOR BATTERY WIR	1		
99	EMG7331-003Z	FUSE CLIP	FOR F1901	6		
100	VJD5458-004	PLATE	MOTOR AJAST	1		
F1901	QMF51N2-R80J1	FUSE	PRI	1		
F1902	QMF0007-6R3J1	FUSE	2ND	1		
F1903	QMF0007-6R3J1	FUSE	BATT	1		
T1901	VTP66A2-12J	POWER TRANS		1		

10 Exploded View of Mechanism Assembly

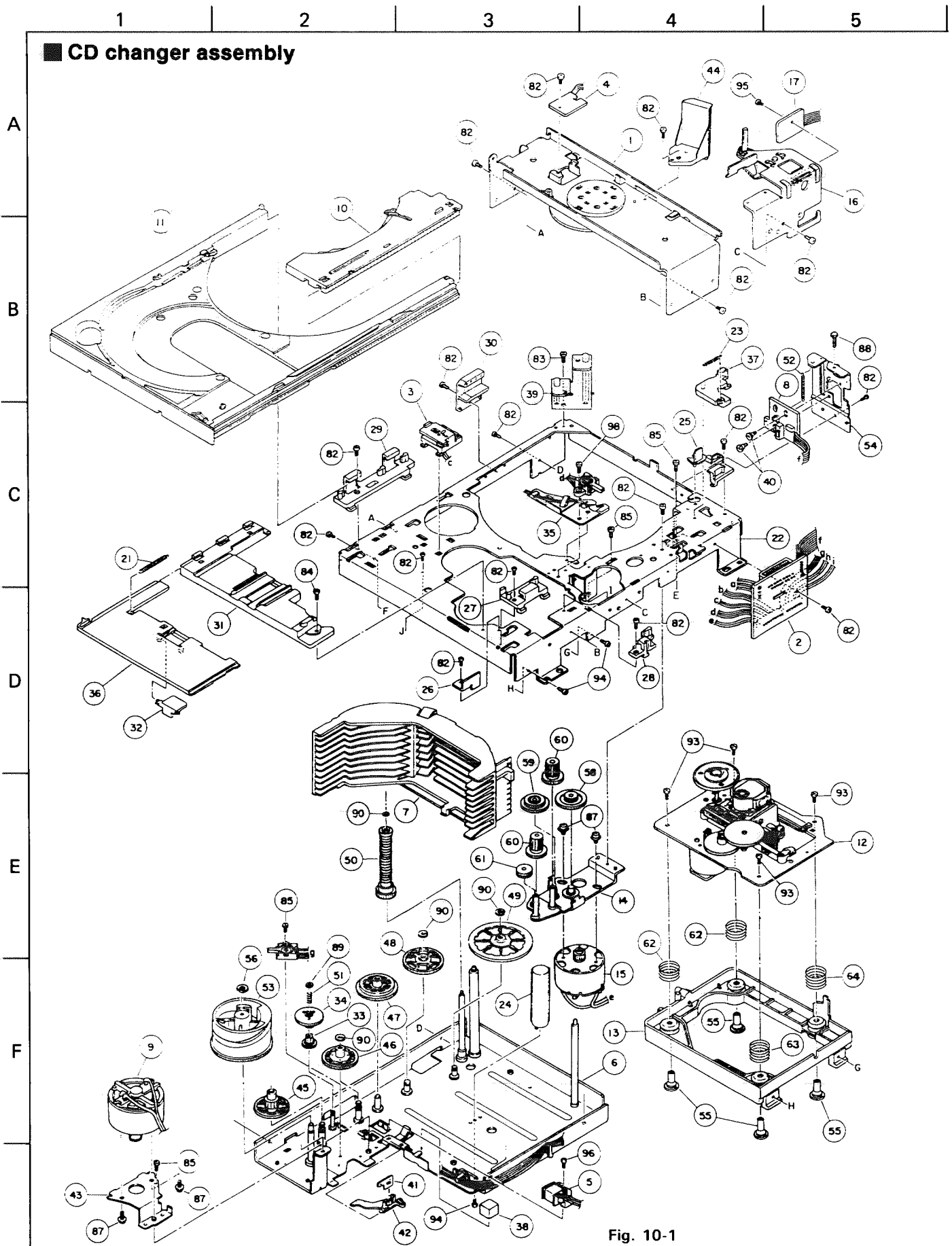


Fig. 10-1

● CD changer assembly parts list

BLOCK No. M3MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	300701318ZT	CLUMPER BKT ASS		1		
	2	-----	CON.PCB ASS'Y		1		
	3	-----	D.S.PCB ASS'Y(A		1		
	4	-----	D.S.PCB ASS'Y(B		1		
	5	300702317ZT	COIL ASS'Y		1		
	6	300702512ZT	GEAR CHAS.ASS'Y		1		
	7	300702320ZT	DISC CASE ASS'Y		1		
	8	-----	E.S PCB ASS'Y		1		
	9	300702302T	E MOTOR ASS'Y		1		
	10	300706316ZT	L.PLATE ASS'Y		1		
	11	300706317ZT	DISC BASE ASS'Y		1		
	12	-----	TRA.MECHA ASS'Y		1		
	13	-----	T.T.BASE H.ASY.		1		
	14	300711501T	L GEAR BKT.ASY.		1		
	15	300711301T	L MOTOR ASS'Y		1		
	16	300711306ZT	GUIDE PLATE ASY		1		
	17	-----	L SEN.PCB ASY		1		
	21	30070187T	C.PLATE SPRING	COVER PLATE SPR	1		
	22	30070185T	CHASSIS		1		
	23	30070144T	L.LEVER SPRING	LOCK LEVER SPR	1		
	24	30070179T	DISC STOPPER D		1		
	25	30070186T	GUIDE R4		1		
	26	30070149T	DISC BASE BKT		1		
	27	30070150T	GUIDE R1(S)		1		
	28	30070151T	GUIDE R2(S)		1		
	29	30070153T	GUIDE L1(S)		1		
	30	30070106T	GUIDE L2(S)		1		
	31	30070155T	COVER PLATE B		1		
	32	30070156T	DISC STOPPER(S)		1		
	33	300702111T	E GEAR G2(P)A	FLOATING	1		
	34	30070256T	E GEAR G2(S)B	FLOATING	1		
	35	30070184T	SW BASE		1		
	36	30070162T	COVER PLATE A		1		
	37	30070163T	LOCK LEVER		1		
	38	300702116T	CUSHION		1		
	39	30070298T	WORM GEAR BKT		1		
	40	19001204T	COLLAR SCREW		2		
	41	30070296T	E CONTROL PLATE	RF CLUTCH	1		
	42	30070292T	E CONTROL LEVER		1		
	43	300702100T	E MOTOR BRACKET		1		
	44	30070175T	GUIDE STOPPER		1		
	45	30070277T	E GEAR G3		1		
	46	300702122T	E GEAR G5		1		
	47	30070279T	E GEAR G6		1		
	48	300702113T	E GEAR G7		1		
	49	30070293T	E GEAR G8		1		
	50	300702112T	E GEAR G9		1		
	51	30070232T	E G.G2 SPRING	E GEAR G2	1		
	52	300702119T	E S.SPRING	E SENSOR	1		
	53	300702118T	E GEAR G4		1		
	54	30070297T	E SENSOR BKT.		1		
	55	30070713T	F.RUBBER HOLDER		4		
	56	9W0250130T	POLY WASHER		1		
	58	30071125T	L GEAR B		1		

BLOCK No. **M3MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
59	30071126T	L GEAR C		1		
60	30071105T	L GEAR D		2		
61	30071106T	L GEAR E		1		
62	30070766T	F.SPRING	FLOATING	2		
63	30070767T	F.SPRING	FLOATING	1		
64	30070768T	F.SPRING	FLOATING	1		
82	9P0420041T	SCREW(M2 X 4)	M2X5	17		
83	9B1320041T	SCREW	M2X4	1		
84	9P0420061T	SCREW	M2X6	1		
85	9C2020301T	SPECIAL SCREW	M2X4	4		
87	9P3026221T	CUP SCREW	M2.6X4	4		
88	9P1720102T	SCREW	M2 X 10	1		
89	9W0250080T	WASHER	2.6X4.5X0.5	1		
90	9W0250110T	WASHER	M2X4	3		
93	9B1220041T	SCREW	3X6X0.5	4		
94	9P0720061T	P.TAP.SCREW	2.6X6X0.5	3		
95	9C0320353T	SCREW	1.85X5X0.5	1		
96	9P0420101T	SCREW	M2X2.5	1		
98	9P0426051T	SCREW	M2X6	1		

② 3007 01 308T CONNECTOR PCB ASS'Y

● Connector board ass'y parts list

BLOCK NO. **M3MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	30070119T	PRINTED BOARD		1
2	68190503T	CARBON RESISTOR		2
3	VMC0163-R18	CONN.TERMINAL		1
4	30071016T	CONN.WIRE ASSY		1
5	30071015T	CONN.WIRE ASSY		1
6	64020801T	SLIDE SWITCH		1
7	300701309T	DISC SENSOR PCB	ASS'Y	1
8	300701302T	DISC SENSOR PCB	ASS'Y	1

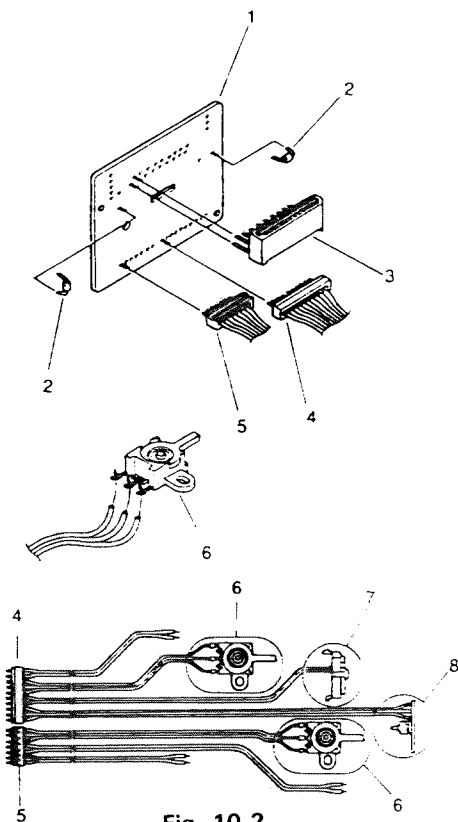


Fig. 10-2

③ 3007 01 309T DISC SENSOR PCB A ASS'Y

● Disc sensor board A ass'y parts list

BLOCK NO. **M3MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	30070124T	PRINTED BOARD		1
2	PT480	PH TRANSISTOR		1
3	30070122T	SENSOR BRACKET		1

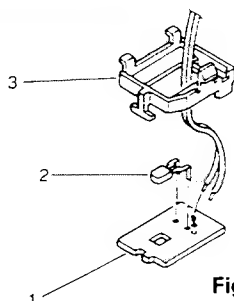


Fig. 10-3

4 3007 01 302T DISC SENSOR PCB B ASS'Y

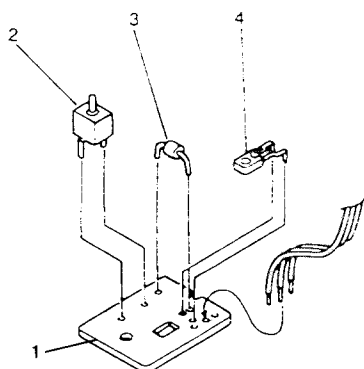


Fig. 10-4

8 3007 02 319T E SENSOR PCB ASS'Y

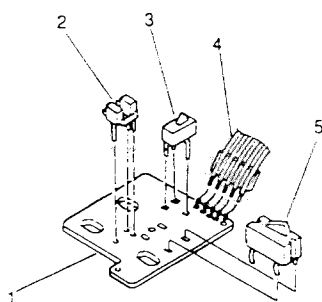


Fig. 10-5

17 3007 11 304T L SENSOR PCB ASS'Y

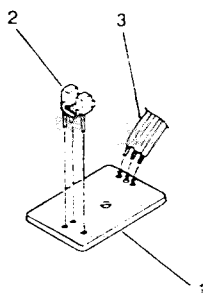


Fig. 10-6

13 3007 07 317T T.T. BASE HOLDER ASS'Y

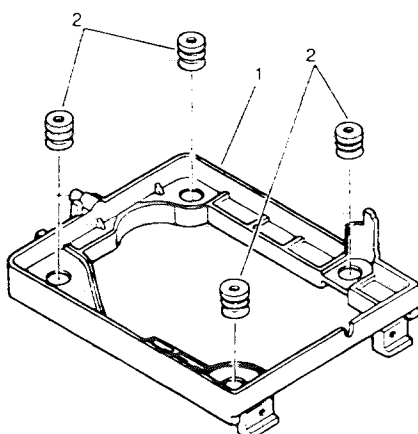


Fig. 10-7

● Disk sensor board B ass'y parts list

BLOCK NO. MEMM				
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	30070125T	PRINTED BOARD		1
2	64020412T	LEAF SWITCH		1
3	68190503T	CARBON RESISTOR		1
4	GL480	PHOTO DIODE		1

● E sensor board ass'y parts list

BLOCK NO. MEMM				
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	300702104T	PRINTED BOARD		1
2	SPI-235-18	PHOTO INTERAPTO		1
3	64010402T	PUSH SWITCH		1
4	300710139T	WIRE ASS'Y		1
5	64010401T	PUSH SWITCH		1

● L sensor board ass'y parts list

BLOCK NO. MEMM				
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	30071116T	PRINTED BOARD		1
2	SPI-235-18	PHOTO INTERAPTO		1
3	30071018T	FLAT WIRE		1

● T. T. base holder parts list

BLOCK NO. MEMM				
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	30070761T	BASE HOLDER		1
2	30070741T	RUBBER BUSHING		4

Cassete mechanism section

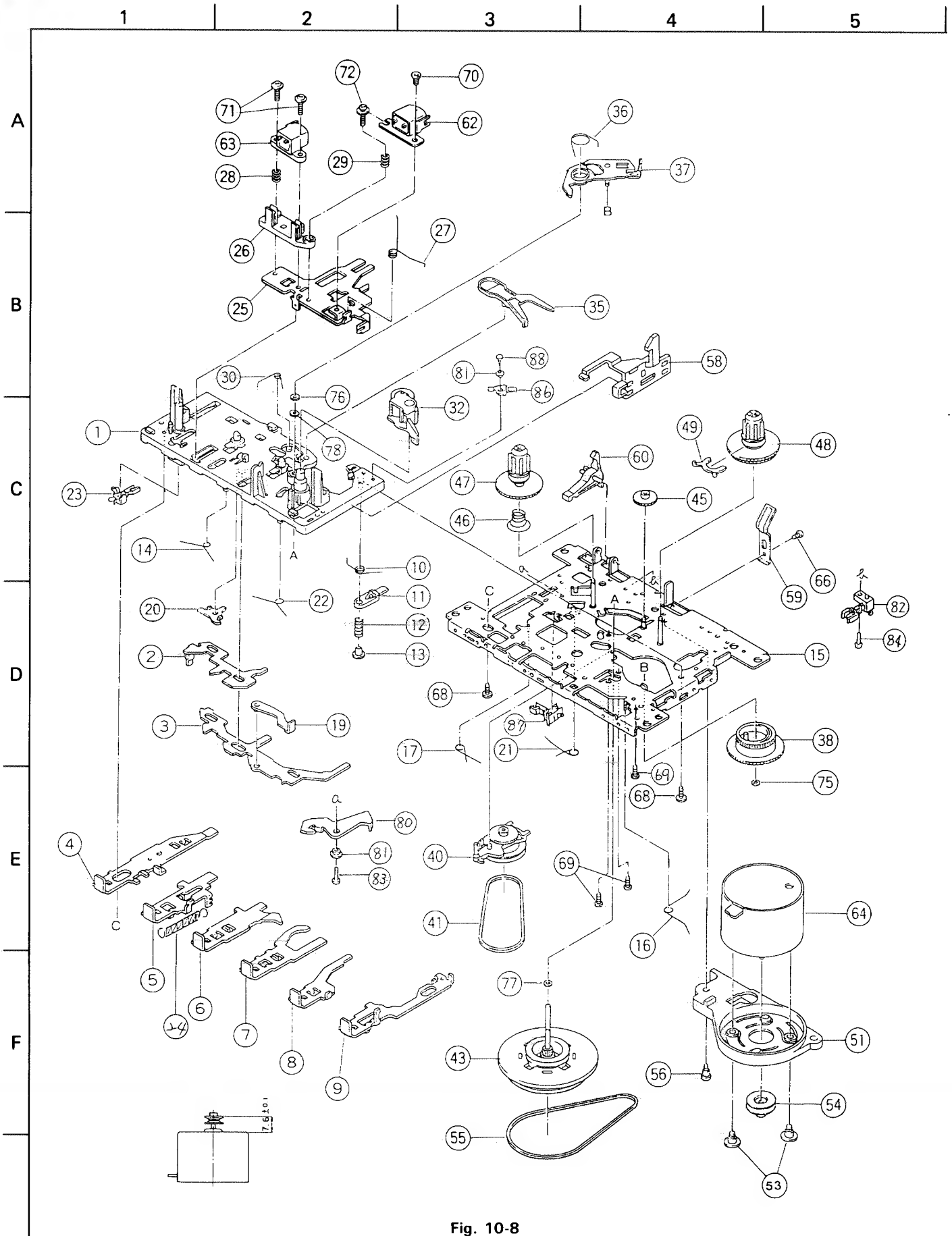


Fig. 10-8

● Cassete mechanism assembly parts list

BLOCK NO. **M4MM111**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	192114316T	BASE ASS'Y		1		
2	19211409T	SWITCH ACTUATOR		1		
3	19211438T	PUSH B. ACTUATOR		1		
4	19211422T	BUTTON LEVER	REC.	1		
5	19211484T	BUTTON LEVER	PLAY	1		
6	19211424T	BUTTON LEVER	REW	1		
7	19211425T	BUTTON LEVER	FF	1		
8	19211466T	BUTTON LEVER	STOP	1		
9	19211461T	BUTTON LEVER	PAUSE	1		
10	19211413T	P CONT. SPRING		1		
11	19211455T	PAUSE LEVER (E)		1		
12	19211412T	SPRING		1		
13	19211411T	PAUSE STOPPER		1		
14	19211414T	TORSION SPRING		1		
15	1921015012T	CHASSIS ASS'Y		1		
16	19211416T	TORSION SPRING		1		
17	19211417T	TORSION SPRING		1		
19	19211464T	E KICK LEVER		1		
20	19211420T	STOPPER		1		
21	19211421T	TORSION SPRING		1		
22	19211415T	TORSION SPRING		1		
23	640101149T	LEAF SWITCH	MSW-1541T	1		
24	18210150T	PLAY BUTTON LEV.		1		
25	19210314T	HEAD PANEL		1		
26	19210306T	HEAD BASE		1		
27	19210309T	PANEL P SPRING		1		
28	18210308T	SPRING	E HEAD	1		
29	18210307T	AZIMUTH SPRING		1		
30	19211418T	TORSION SPRING		1		
32	192104309T	P.ROLL. ARM ASSY		1		
35	19212604AT	SENSING LEVER		1		
36	19212605T	TORSION SPRING		1		
37	1921265022T	GEAR PLATE ASSY		1		
38	19212602T	CAM GEAR		1		
40	192107308T	RF CLUTCH ASS'Y		1		
41	18210711T	RF BELT		1		
43	1921093032T	FLYWHEEL ASS'Y		1		
45	18211070T	F. FORWARD GEAR		1		
46	18211099T	BACK TENSION SP		1		
47	192105304T	S. REEL ASS'Y		1		
48	192105303T	T. REEL ASS'Y		1		
49	19210506T	SENSOR		1		
51	19211208T	MOTOR BRACKET		1		
53	19211202T	COLLAR SCREW		2		
54	19211201T	MOTOR PULLEY		1		
55	19210923T	MAIN BELT		1		
56	19211203T	MB SCREW		1		
58	19211301T	EJ. SLIDE LEVER		1		
59	18291001T	PACK SPRING		1		
60	18211069T	REC.SAF.LEVER		1		
62	62020175T	R/P HEAD	MS15R-AA2N1	1		
63	62021419T	E.HEAD	LE15B-C1	1		
64	60020218T	MOTOR	EG530AD-9F	1		
66	91790000T	TAPPING SCREW	M2 X 3	1		

CD mechanism section

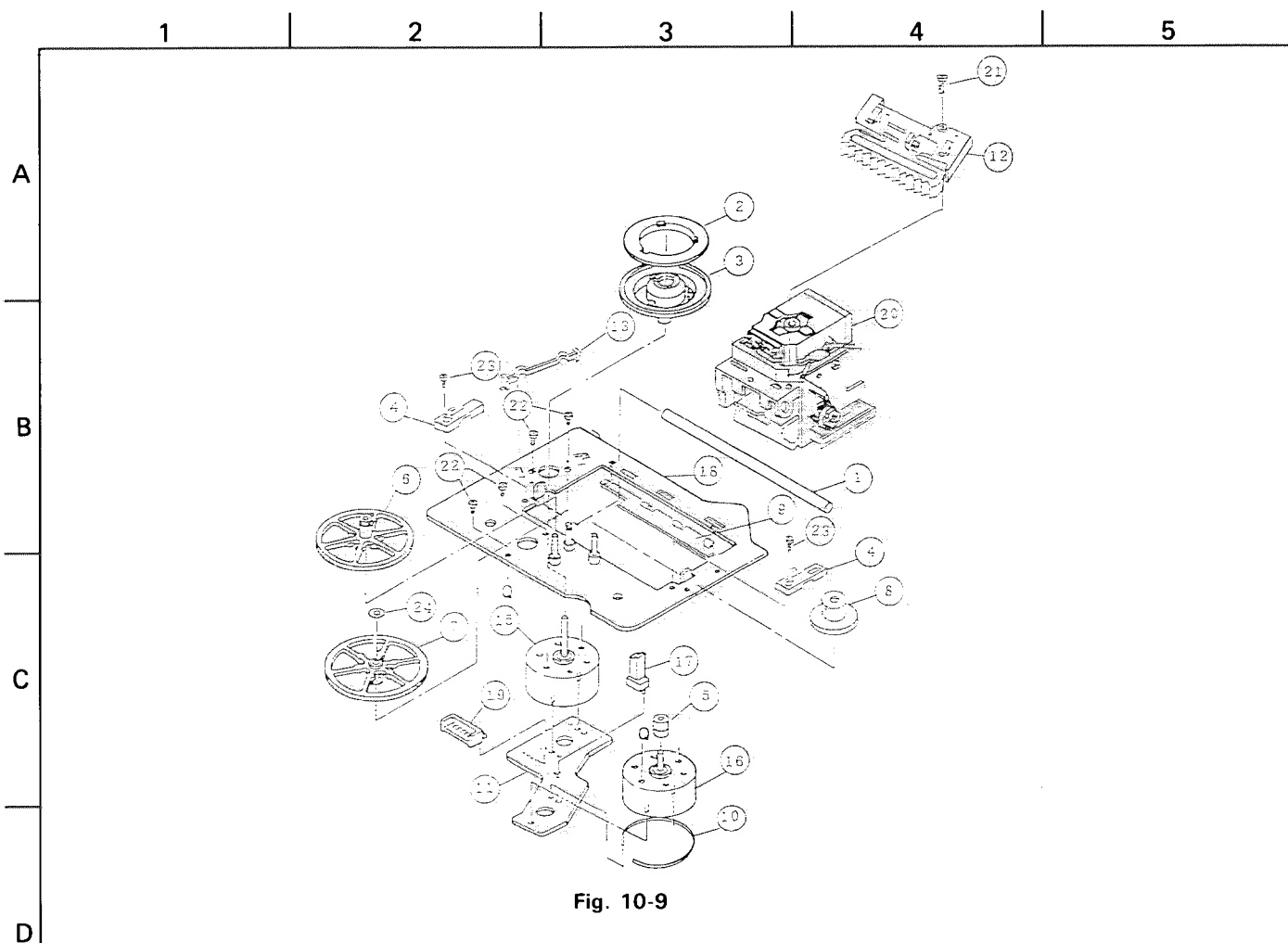


Fig. 10-9

CD mechanism parts list

BLOCK NO. M5MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	30020712T	GUIDE SHAFT		1		
2	30050713T	LOCK RING		1		
3	30070760T	TURNTABLE		1		
4	30070764T	SHAFT CLAMP		2		
5	30070726T	GEAR A		1		
6	30070727T	GEAR B		1		
7	30070728T	GEAR C		1		
8	30070729T	GEAR D		1		
9	30070730T	STOPPER		1		
10	30070746T	EARTH SPRING		1		
11	30070751T	PRINTED BOARD		1		
12	30070757T	CD RACK		1		
13	30070739T	TENSION ARM		1		
15	60020902T	SPINDLE MOTOR		1		
16	60020903T	GEAR MOTOR		1		
17	640101195T	LEAF SWITCH		1		
18	300707502T	MECHA BASE		1		
19	68020264T	CONN. TERMINAL		1		
20	69011602T	PICKUP ASS'Y		1		
21	9B1220061T	SCREW		1		
22	9C0120253T	SCREW		4		
23	9P0420061T	TAPPING SCREW		2		
24	9W0640070T	WASHER		1		

11 Illustration of Packing and Parts List

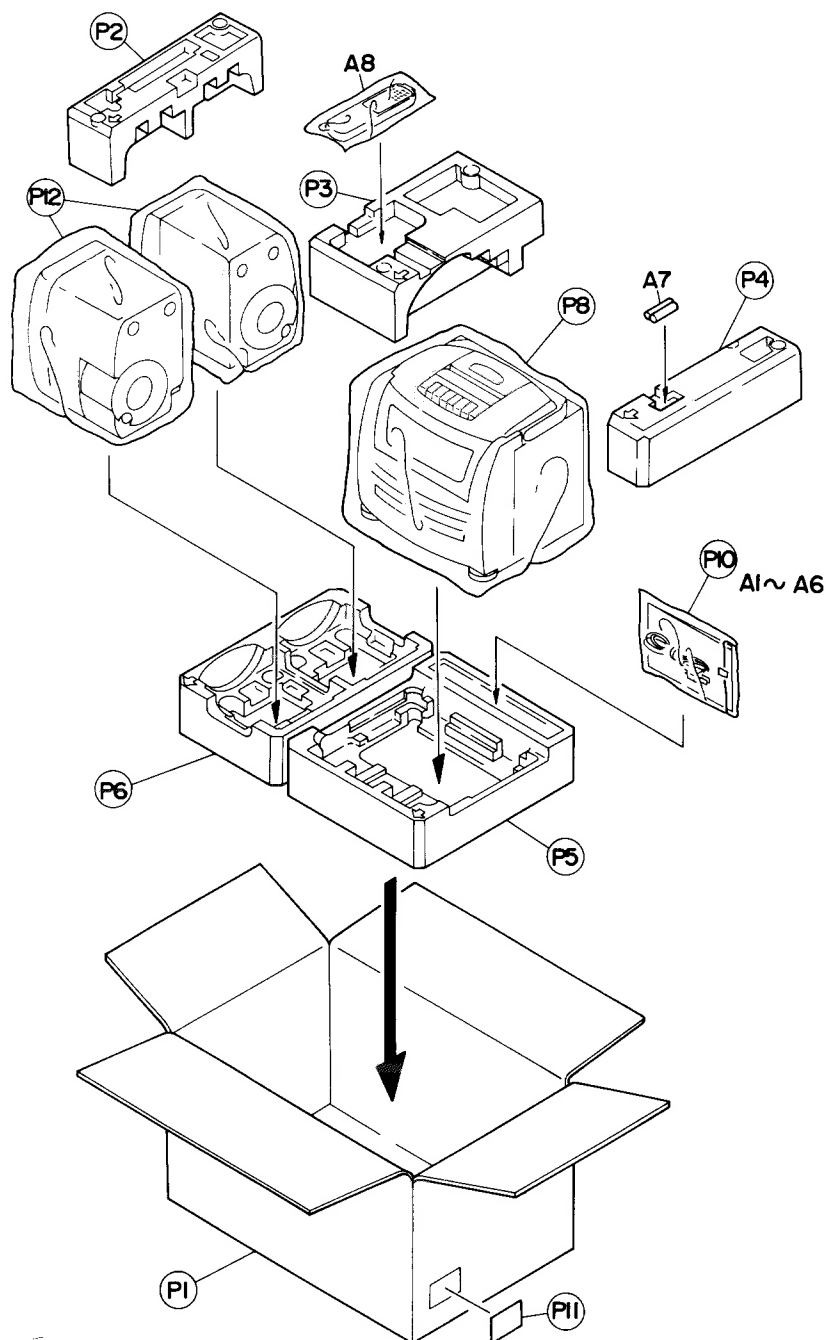


Fig. 11-1

● Packing parts list

BLOCK NO. M6MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPC7074-M001	CARTON		1		
P	2	VPH1688-001	CUSHION(U.L)		1		
P	3	VPH1688-002	CUSHION(U.C)		1		
P	4	VPH1688-003	CUSHION(U.R)		1		
P	5	VPH1688-004	CUSHION(BOTTOM)	FOR RECEIVER	1		
P	6	VPH1692-001	CUSHION(BOTTOM)	FOR SPEAKER BOT	1		
P	8	VPE3026-005	POLY BAG	FOR RECEIVER	1		
P	10	VPE3005-007	POLY BAG	FOR INSTRUCTION	1		
P	11	-----	CARTON LABEL		1		
P	12	VPE3026-002	POLY BAG	FOR SPEAKER	2		

● Accessoires parts list

BLOCK NO. M6MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
△	A 1	VNN7073-612M	INSTRUCTIONS		1		
△	A 2	BT-20044G	SAFETY INST.		1		
	A 3	BT-20047F	WARRANTY CARD		1	J	
		BT-52002-1	WARRANTY CARD		1	C	
	A 4	BT-20071B	SERVICE NETWORK		1	C	
		BT-20137	SERVICE NETWORK		1	J	
	A 5	VNC1200-106	CAUTION SHEET		1		
△	A 6	QMP1F00-183	POWER CORD	SPT-2	1		
	A 7	R6PRPA-2STSA	BATTERY		2		
	A 8	VGR0051-001	REMO-CON UNIT	RM-RXP1070	1		



VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan